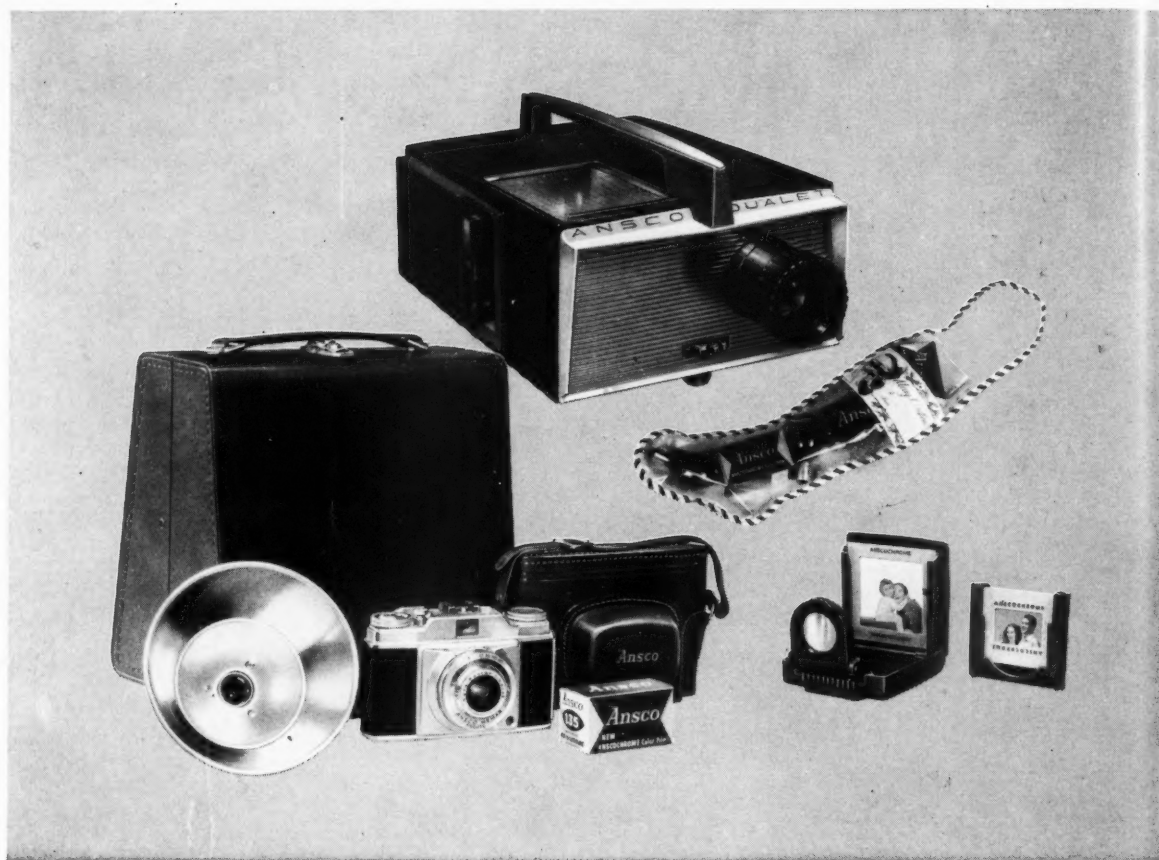


Modern PHOTOGRAPHY



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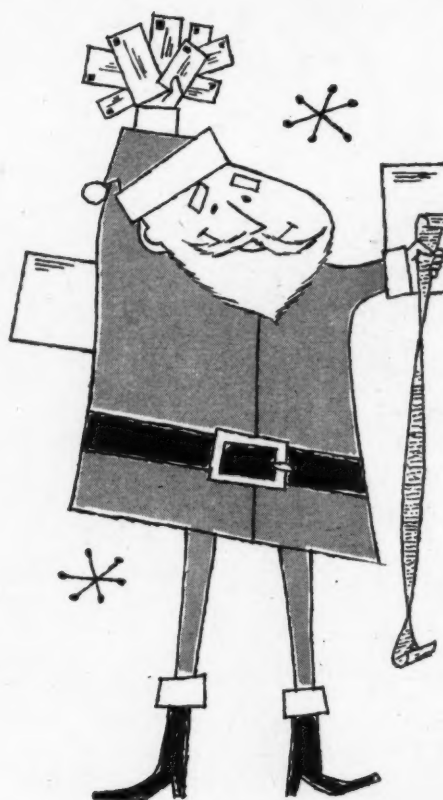
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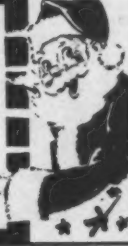
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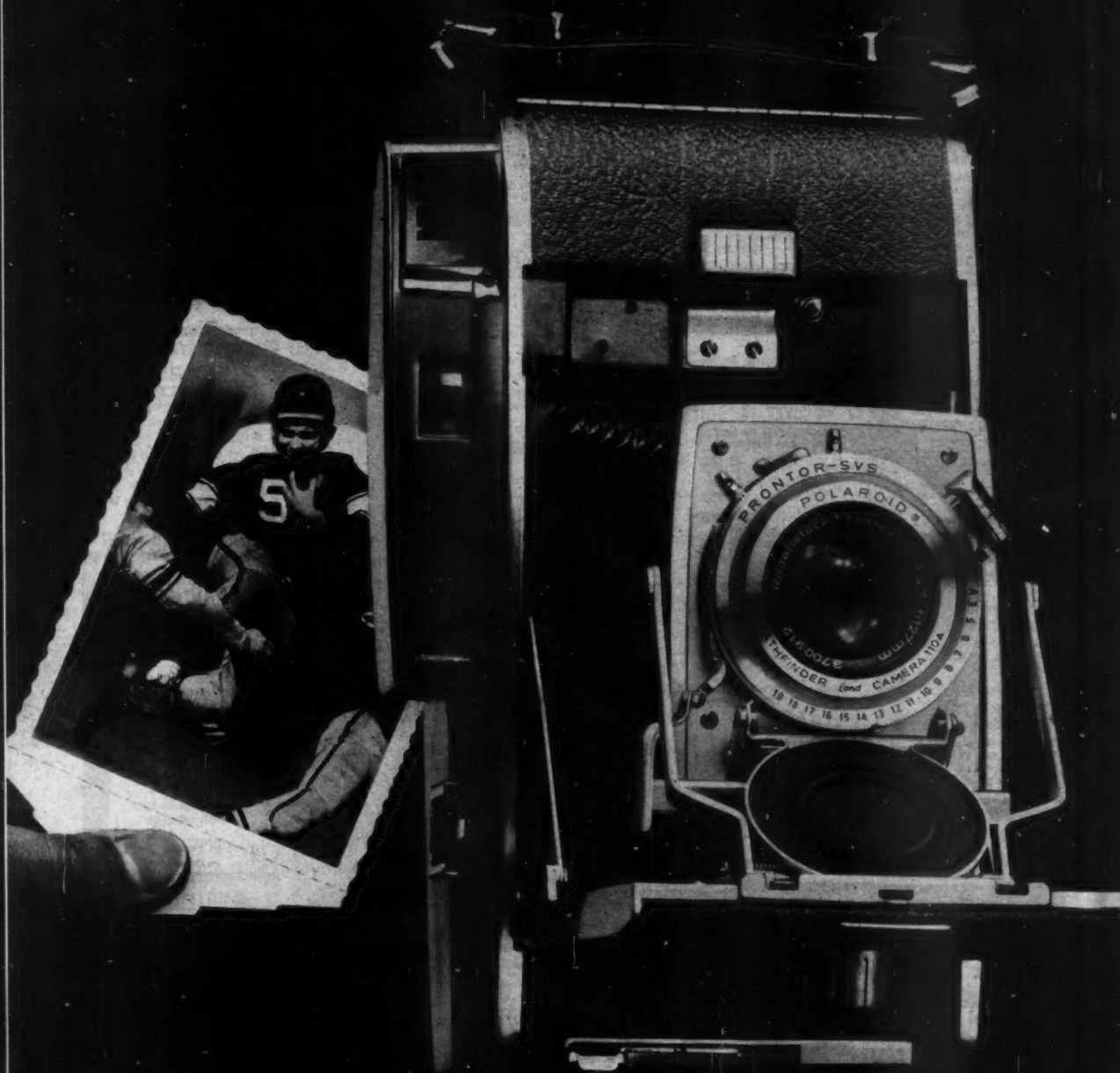
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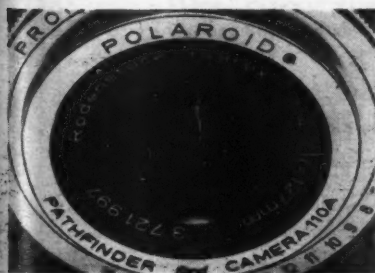
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You'll stop action... put depth in your scenic shots... give "single-plane" sharpness to portraits with this versatile precision instrument. Loaded with the new high speed Polaroid Land film (400 ASA equivalent) the Pathfinder's extra range of shutter and lens speeds

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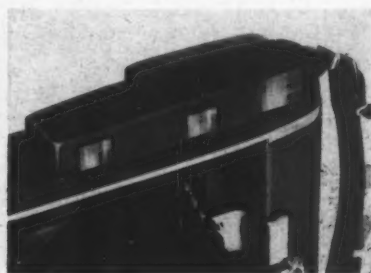
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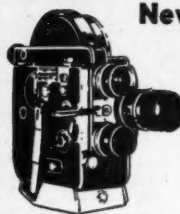
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JUST OUT—BOLEX B-8 VS. with Variable Shutter! Only \$15.00 more than regular B-8 model!

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Perfection in camera design—that describes the four models of the 1958 Zeiss **CONTAFLEx**. Here are some of the reasons:

- Single-lens reflex system—free from parallax
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- Built-in photo-electric exposure meter on models II and IV
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DOWLING's also offers proudly the incomparable **CONTAx**—finest camera bearing the ZEISS name. With its all-metal focal plane shutter to 1/1250 second and complete battery of lenses from 21mm wide angle to 135mm telephoto, the 1958 **CONTAx** masters any assignment! **CONTAx I** with Sonnar f/2.0 lens **\$298.00 Cash or \$29.80 Down**; with Sonnar f/1.5 lens **\$318.00 Cash or \$31.80 Down**. **CONTAx I** (built-in meter) **\$30.00** additional. Write us today for complete, **FREE** Contax brochure!

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BONUS with your new PENTRON from DOWLING'S:

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FREE of extra charge (mention "Bonus Tape" when ordering).

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Models 150, 800 and 110A have coupled rangefinder. Save by ordering complete outfit. Write for details today!



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1958
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1958 MINOX IIIS

Tiniest Precision Camera. Only 3" long weighs just 2 1/2 oz. Shutter speeds to 1/1000 sec. flash synch., f/3.5 lens for color and B/W. Complete with case and carrying chain \$139.50 Cash or \$13.50 Down.



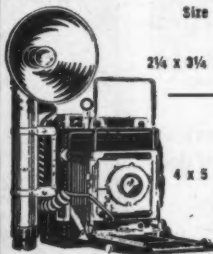
New 1958 ROLLEIS!

Rolleicord Va with Xenar f/3.5 \$124.35 Cash or \$12.45 Down; Rolleiflex 3.5G \$232.50 Cash or \$23.25 Down; with built-in exposure meter \$272.50 Cash or \$27.25 Down. Rolleiflex 2.8E \$281.50 Cash or \$28.15 Down; with built-in meter \$331.50 Cash or \$33.15 Down.



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Size	Coated lens in shutter	Speed	Crown
		Graphic	Graphic
2 1/4 x 3 1/4	101mm Ektar f/4.5 (1/800 sec.)	\$355.	\$315.
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	105mm Tessar f/3.5	315.	293.
4 x 5	135mm Xenar f/4.7	315.	293.
	135mm Optar f/4.7	366.	335.
	127mm Ektar f/4.7	366.	335.
	135mm Tessar f/4.5	365.	315.
	135mm Xenotar f/3.5	419.	399.
	150mm Xenar f/4.5	365.	315.
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New Graphic rangefinder is made only for 4 x 5 cameras.
2 1/4 x 3 1/4 outfits are supplied with Kalart coupled rangefinder.

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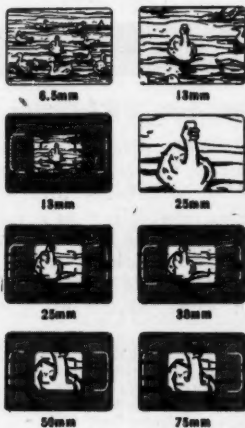
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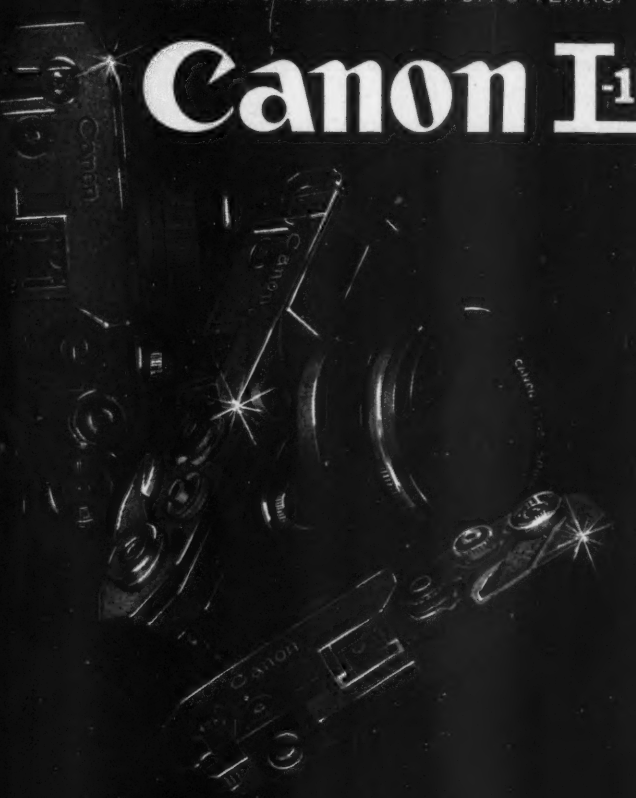
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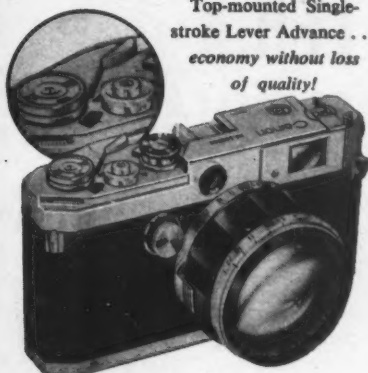
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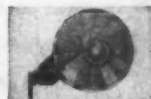
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DECEMBER 1957, VOL. 21, NO. 12

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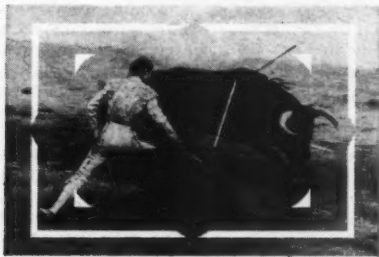
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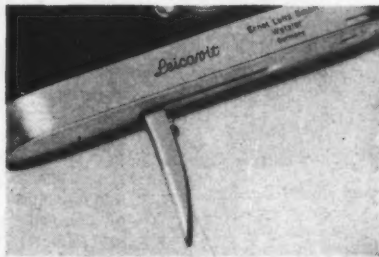
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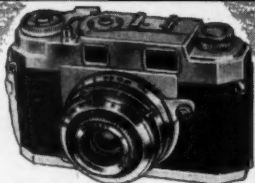


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Coffee Break WITH THE EDITORS

THIS MONTH'S COVER . . .

Since this month's MODERN concerns itself mainly with cameras—all sizes, shapes and formats, we decided that the best thing we could do would be to get as many on the cover as we could. We loaded up a Christmas grab bag full of 35mm's, 2¼ reflex cameras and what have you, placed the whole affair on the strong and willing back of Art Director Ernest Scarfone and dispatched him to Dirone Photography. The rest was up to him and the photographers. Scarfone worked out what appeared to be the most pleasing design and the shot was made on an 8 x 10 Deardorff loaded with daylight Ektachrome. Electronic flash supplied the light, with the Commercial Ektar 14-in. lens set at f/22.

TIME OUT . . .

The movie camera body casting came down on the desk with a thud. Alan Cartoun, Vice-President and Advertising Director for Longines-Wittnauer, waved it dangerously to emphasize a point. He was interrogating an unnamed party at the other end of the phone regarding radio time in the San Francisco area. Two worried ad men sat in front of the desk, filling the spacious office with blue smoke from cigarettes of unknown brands.

Suddenly the conversation was over, the two men had disappeared quicker than you can say Longines Symphonette or Mischel Piastro, and we were being escorted rapidly into the Longines-Wittnauer showroom by Cartoun—a thirty-ish, short, dynamic, young man who we noted seemed to be lacking a wrist watch.

In the showroom stood a wall-length jewelry display cabinet filled with cameras (14 in all) packed as if they were fine watches. Each nestled comfortably on colored foam rubber in a jewelry-styled box. The cameras, mostly German products, ranged from a very inexpensive twin-lens reflex-type box camera through an elaborate interchangeable lens camera with behind-the-lens leaf shutter and built-in exposure meter. Vice-president Cartoun asked an assistant for a sample of the radical movie camera-projector (whose skeleton we saw on his desk).

"Response to the movie unit has been terrific," said Cartoun discovering that there wasn't one available. "I can't seem to keep one here. Most are out on the road with the salesmen. You

don't know what a time we had getting you a test model last week."

We went to lunch. "I've always been an amateur photographer," explained Cartoun. "That's why I've been placed in charge of the new camera operation. I've had a subscription to MODERN for years."

We ordered herring. While awaiting it, Cartoun explained how Longines-Wittnauer feels about the camera business.

"We wanted to get going with a bang. One camera would not make an impression. So instead we're introducing a whole line of cameras from the very inexpensive right on up. We have a model for everybody."

We dismembered the herring and went on to the rest of lunch. "Packaging is important," continued Cartoun, watching us combat the herring. "We've learned a bit about that in the watch field. But you can't sell a package. We think the name Wittnauer will mean a lot in the future to camera buyers. But we're not in the business to sell a name either. We're selling cameras—good ones."

Cartoun explained the research and tooling that had gone into the making of the movie camera. "It's taken 36 months to get this camera on the market. I'm not used to such delays. Why should it take engineers that long to make the tools and the dies? What a job to keep the project a secret for three years."

Cartoun reached into an inner pocket, pulled out a tremendous pocket watch (Longines), and checked the time. "Terrific watch," he remarked. "You can time two events at the same time with it. We have another timer with a hand revolving once every three seconds. Do you like watches? I'm fascinated by them. I like to work with young people. Longines-Wittnauer is a young, ever-growing organization. We've only begun to get into camera manufacture."

We raced back to the Longines-Wittnauer office. Cartoun escorted us to the elevator, pushed the bell and galloped back to his office—the smoke, the ad men, the radio time, the camera skeleton. Elapsed time two hours, fifteen minutes, thirteen seconds—Longines-Wittnauer watch time.



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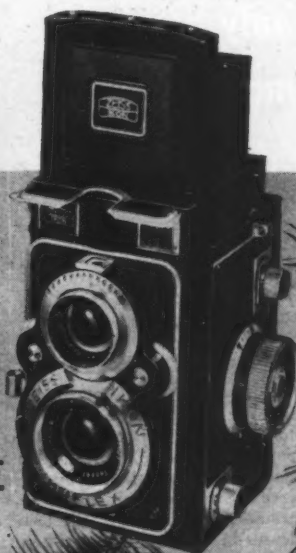
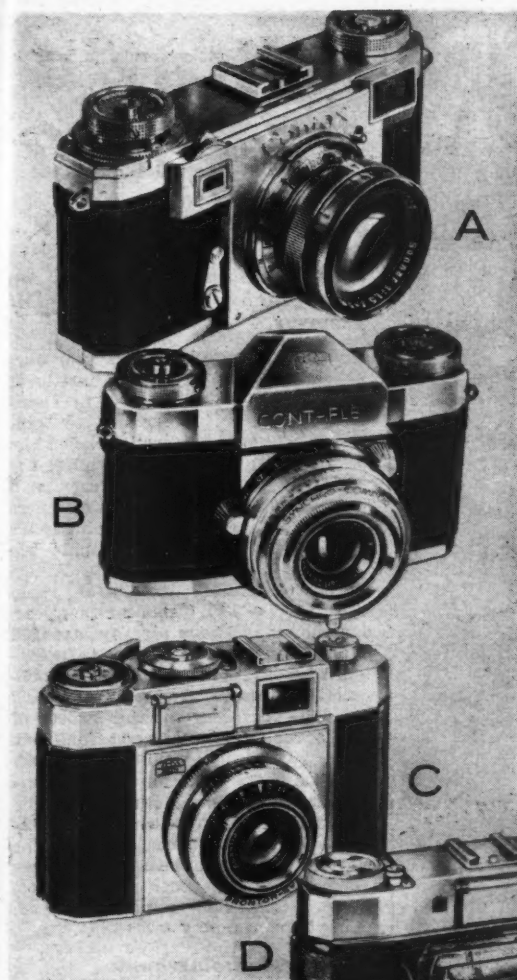


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What's Ahead?

by LLOYD E. VARDEN

Recent annual conferences on photography present review of progress.



Each year during the months of August to October one is kept pretty busy if he attends all of the conferences and annual meetings of the various photographic societies in America. During these months this year,

for example, I have already attended the 27th annual meeting of the Biological Photographic Association (Rochester, Minnesota, August 27-30) and the 1957 conference of the Society of Photographic Scientists and Engineers (Asbury Park, New Jersey, September 9-13). And the 82nd Convention of the Society of Motion Picture and Television Engineers (Philadelphia, October 4-9) will have been held by the time this column appears. There have been, or will be, other meetings too, but it is impossible to hit them all because of overlapping dates.

Biological photography

Most photographers are unaware that there is a specialized professional group devoted entirely to biological photography. But the 1,000 or so members of the BPA (organized in 1931) indicate a healthy activity in this field. Perhaps 80 percent of these members are engaged in medical photography, the rest scattered among other biological sciences (zoology, botany, etc.).

Because of the unusual problems of the biological photographer, his demands for refined equipment and materials have no doubt helped in encouraging manufacturers to introduce improvements that are of value to photographers generally. Many of the close-up devices, lenses, motion picture camera accessories and stereo systems have been developed with the biological photographer in mind.

At the Rochester, Minn., meeting the picture and transparency exhibits, as well as the papers presented on the program, left no doubt that today the living human body can be recorded photographically, inside and out, in color—still or in motion. Special cameras are available with self-contained illumination systems that can take pictures through any opening of the body—the ear, nose, mouth, etc. Still and

(Continued on page 20)

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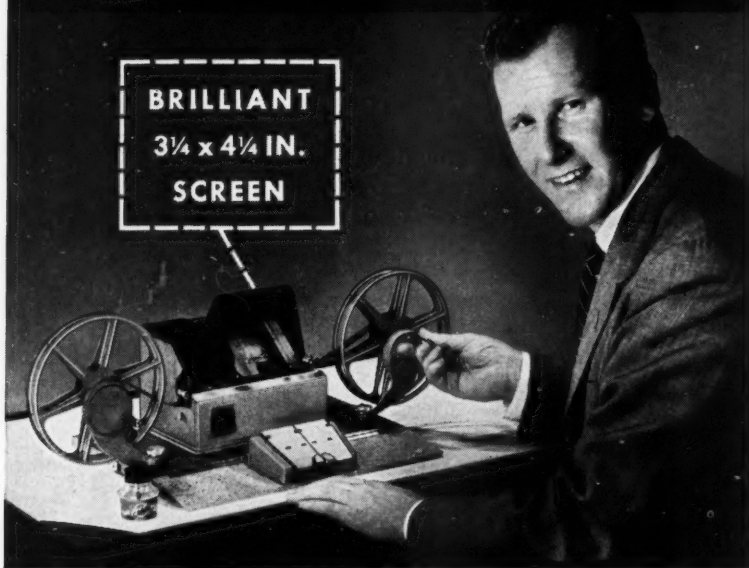
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WHAT'S AHEAD

(Continued from page 16)

motion pictures during actual surgical operations are now made routinely under sterile and otherwise safe conditions. (In years past surgeons had a fear of flash equipment in the operating room because electrical sparks have caused serious explosions.)

During a visit to the world-famous Mayo Clinic in Rochester I saw the new automatic X-ray film processing machine which Kodak now has under test before it is released generally. With this machine the sheets of film are merely fed into a slot—no clips, hangers or other supporting means—and in only six minutes the developed, fixed, washed and dried films stack up in sequence at the opposite end of the machine. The films are "snaked" through the processing solutions by a series of driven rollers so designed that the film emulsions (medical X-ray films have an emulsion on both sides of the film base) are not scratched or abraded. As each film is introduced it actuates a microswitch that starts a pump which introduces a prescribed amount of replenisher solution into the developer, short-stop and fixing baths.

As I watched how simple and rapid it was to process one sheet of film after another it was not difficult to visualize the extension of such equipment to regular photofinishing practice. The machine would be too expensive for the individual (around \$30,000), but large photographic establishments and commercial finishers will probably be hammering at Kodak's door before long for similar equipment.

Photo science and engineering

Over 35 papers were presented on the program of the SPSE at Asbury Park, N. J., on many different phases of photographic science and engineering. Quite a few of these papers (at least their conclusions) have a direct bearing on practical photography, but space does not allow a discussion of all of them. Here are a few highlights on some of the subjects of greatest interest to working photographers.

Mr. J. Q. Umberger of Du Pont described the reasons for curl and shrinkage of photographic film. The effect of humidity changes on photographic materials is to curl films coated on one side and to shrink those films with equal gelatin coatings on both sides. By considering the film as a laminate of materials of differing moisture sensitivity, he showed that as a first approximation curl is directly proportional to the emulsion thickness and inversely proportional to the square of the base thickness. Film shrinkage varies directly with the emulsion thickness and inversely with the base thickness.

Mr. H. G. Morse of Ansco spoke on the use of high exposure indexes with films of normal speed. Under proper conditions of exposure and develop-

(Continued on page 42)



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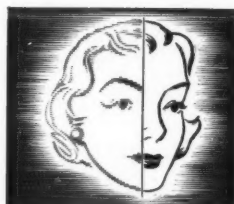
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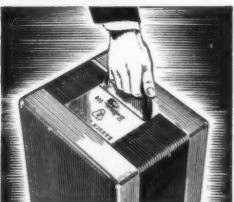
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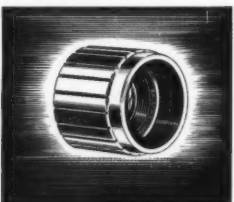
Fully automatic! Set your own timing... Balomatic 500 runs itself! You watch the picture, not your projector.



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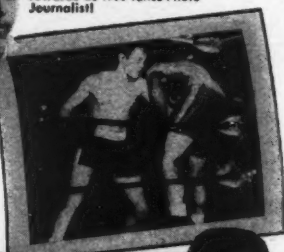
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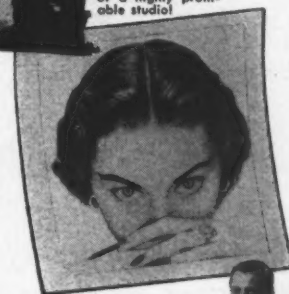
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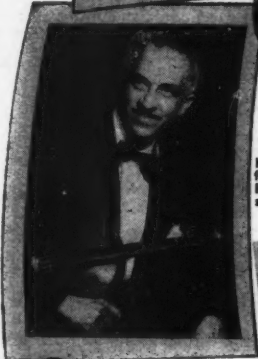
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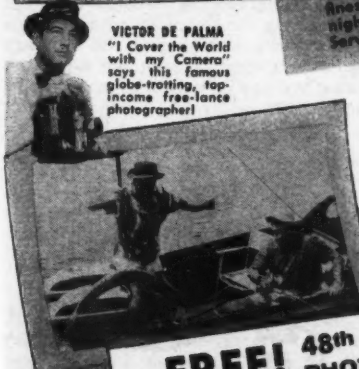
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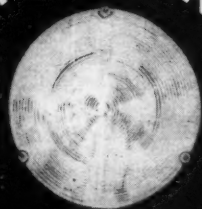
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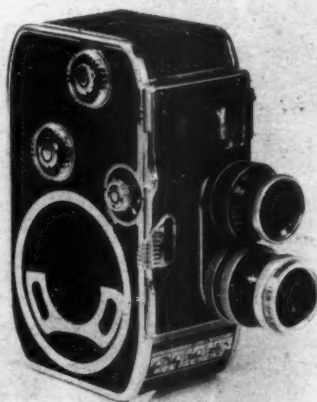
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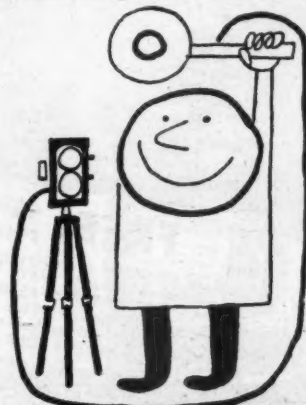
Millions of words have been written on ways to improve 8mm movies. Boiled down, they describe makeshift ways to overcome the problem of a comparatively slow shutter speed, fast action and tiny frame size.

The Bolex B8 with Variable Shutter is the first camera that offers a direct approach to capturing sharper images in movies. You still shoot at your normal 16 fps, but instead of a shutter speed of 1/35 sec., a twist of a dial speeds up the shutter action to 1/70 sec. At 24 fps, the shutter speed can be as high as 1/100 sec.



Bolex B8 with Variable Shutter

Fades, gradual darkening of the image until the screen is black, or lightening of the image until it appears normally, have always been tough for 8mm fans. The variable shutter makes fades easy, smooth and professional looking. MODERN's editors are testing the Bolex B8 with Variable Shutter right now, and the January issue will carry a complete report on what you can do with it to make better movies.



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For complete details on the new SP, all its exciting innovations and unique accessories, see your Nikon franchised dealer, or write to: Dept. MP-12, Nikon Incorporated, 251 Fourth Avenue, New York 10, N. Y. In Canada: Anglo-photo Ltd., Montreal, Toronto, Vancouver.



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the LARGE CAMERA

by **ANDREAS FEININGER**

Staff Photographer for *Life Magazine*

A survey of the characteristics of large cameras to aid in selecting the camera best suited to you.



If you go to a large photo shop or study the latest photographic directory and buying guide you will find 20 to 30 different models of large cameras from which to choose the one best suited to

your temperament and type of work.

Start with the film size

Large cameras are built for the following film sizes: $2\frac{1}{4} \times 3\frac{1}{4}$, $3\frac{1}{4} \times 4\frac{1}{4}$, 4×5 , 5×7 , 8×10 .

$2\frac{1}{4} \times 3\frac{1}{4}$ is too small to offer all the advantages of a "large" camera and so I do not recommend it. And the $3\frac{1}{4} \times 4\frac{1}{4}$ is a relatively rare size in which only a few camera models are made. Except in large cities, film for both these "sub-standard" sizes may be difficult to get.

4×5 , the standard American size for black-and-white photography, offers the largest number of different camera models to choose from and film is readily available practically anywhere in the world.

5×7 is unnecessarily big for black-and-white photography, but an excellent size for one who works predominantly in color. Because they are almost twice as large, 5×7 transparencies are much easier to sell than 4×5 's, yet their cost is considerably less than 8×10 's. Equipped with a separate interchangeable 4×5 back for black-and-white photography, the 5×7 makes perhaps the finest and most versatile camera for the photographer who is determined to get to the top.

8×10 is the standard camera in commercial studios, but only fanatics have the strength and courage to use it out-of-doors. Color reproduction of paintings is the only field for which I unreservedly recommend the 8×10 .

Take a close look at the "swings"

Most large cameras have more or less extensive provisions for making individual adjustments in the relative positions of both lens and film, the purpose of which is to make it possible for the photographer to control perspective, avoid unwanted distortion, and improve distribution of overall

sharpness in the negative. How to do this is described in complete detail in my book, *The Creative Photographer*.

For complete control of perspective and distribution of sharpness, a camera must have the following adjustments:

The back of the camera must tilt vertically around a horizontal axis, swing laterally around a vertical axis, slide vertically up and down, move to the right and left of center.

The front (or lensboard) of the camera must tilt vertically around a horizontal axis, swing laterally around a vertical axis, slide vertically up and down, move to the right and left of center.

The most important of these adjustments are the vertical tilts of the back and front, and the vertical rise and fall of the front. Since only a few large cameras are equipped with a complete set of adjustments, make sure that these at least are available; if not, reject the camera. Ideally, camera adjustments should be designed in such a way that all tilts and swings are made on optical axes.

To be of most practical use, the camera must be built square so that to switch from a horizontal to a vertical picture, instead of turning the entire camera on its side, all the photographer need do is reverse or rotate the back panel.

Wide-angle provisions

Not all large cameras are equally well suited to wide-angle photography. If you wish to use (on a Press-Type camera) the extreme wide-angle lenses of the Super Angulon 8 series with coverage up to 102° , make sure that the camera is equipped with a dropped and inside wide-angle rack; or if you choose a view-type camera, make sure that the bellows can be compressed sufficiently to permit focusing the wide-angle lens on infinity. Note also that though some large cameras permit the use of extreme wide-angle lenses, the bellows are so stiff that it is impossible to raise or lower the front when the lens is focused at infinity, which seriously restricts the value of the camera-lens combination for architectural photography. In some cameras, mounting the wide-angle lens in a recessed board can alleviate this.

Any camera that is used more than occasionally for close-up photography should be equipped with rear focusing. "Focusing" means adjusting the lens-to-film distance in relation to the lens-

(Continued on page 32)

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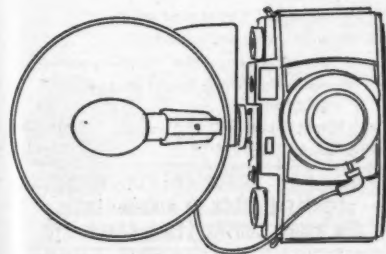
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DECEMBER, 1957

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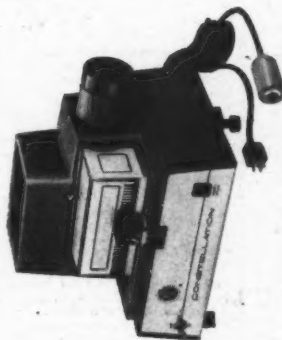
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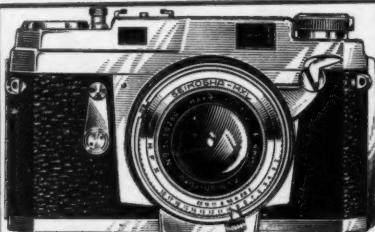
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Yashica 'A', F:3.5 synch.	29.50	18.75
Yashica 'LM', F:3.5 Exp. Meter	59.50	33.75
Yashicamat F:3.5 autom.	75.00	46.50
LEICA, CONTAX, NIKON, CANON LENSES		
Compartment case for Leica	29.95	.....
Extension Tube set	.....	3.50
Nooky close-up for 50mm	31.50	19.00
Leica 'M' Exp. Meter with cell	46.50	16.95
21mm Biogon F:4.5 W.A. 90°	199.00	114.25
35mm Elmar F:3.5 W.A.	.....	43.50
35mm Summaron F:3.5 W.A.	102.00	53.95
35mm Nikkor F:1.8 W.A.	179.50	117.50
35mm Biogon F:2.8 W.A.	.....	67.00
50mm Nikkor F:1.4	.....	94.50
73mm Helios F:1.9 cpld.	.....	54.00
85mm Canon F:1.9	87.50	.....
85mm Zeiss Jena	229.00	77.95
85mm Elmar F:1.8	144.95	.....
90mm Elmar F:2.8	96.00	52.25
105mm Nikkor F:2.5	152.50	96.75
135mm Helios F:1.8	138.00	59.50
135mm Zeiss Jena F:4	146.00	46.25
135mm Nikkor F:3.5	135.00	46.25
135mm Tamack F:3.5 cpld.	54.50	.....
180mm Sonnar F:2.8w Refl. hsq.	625.00	238.00
35mm CAMERAS		
Agfa Ambi Silette F:2.8 Rfdr.	129.50	51.95
Airax III F:1.9 Rfdr.	99.50	26.95
Argus C3, case and flash cell	49.50	48.50
Argus C4, F:2.8, case, flash	117.00	58.95
Argus C44 case and flash	.....	50.95
Canon IV-S2, F:1.9 Rfdr.	285.00	106.95
Canon V, latest F:1.8	325.00	163.95
Contax II, Sonnar F:2	.....	58.95
Contax III, Sonnar F:2	.....	45.95
Contax IIA, Sonnar F:2	298.00	113.95
Contax IIIA, Sonnar F:1.5	348.00	167.50
Esa, F:2.9 MX synch.	85.00	33.25
Exakta I, F:2.9 synch.	.....	42.00
Exakta VIIIA, F:2 autom.	399.50	228.00
Kodak Pony, F:4.5 synch.	***	9.75
Kodak Signet, Ektar F:3.5 Rfdr.	***	31.95
Kodak Retina II A, F:2 Rfdr.	.....	61.95
Konica III, Hexanon F:2 FMX	124.50	43.50
Leica IIIA, F:2, Rfdr.	.....	59.50
Leica IIIC, F:2, Rfdr.	.....	78.95
Leica IIIF, F:2 synchro Rfdr.	336.00	123.75
Leica M3, Summicron F:2	456.00	267.95
Minolta 'A' F:3.5, Rfdr. synch.	49.50	23.95
Minolta A2 F:2.8 Rfdr. FMX	69.50	34.00
Nikon S-1, F:1.5, Rfdr. synch.	.....	128.00
Nikon S-2, F:1.5, Rfdr. synch.	385.50	184.00
Panon Wide Field Camera	445.00	228.00
Praktina, Biotar F:2 autom.	297.50	166.50
Ricoh 35, case and flash	42.50	28.95
Ricoh 500, F:2.8, Rfdr.	44.95	.....
Robot 'Star', F:2.8 'MX' synch.	79.00	.....
Voigtlander Prominent F:1.5	270.00	109.00
Voigtlander Vitessa I, F:2.8	139.50	79.00
Voigtlander Vito IIA, F:3.5	54.50	29.50
Voigtlander Vito B, F:3.5	45.00	22.25
ELECTRONIC FLASH		
Mighty Midget, batteries	62.95	34.50
FR, AC and batteries	54.95	28.75
FR 140, AC unit	29.50	16.75
Heiland VII, batteries	39.95	.....
Heiland IV, Wet-cell	369.50	186.00
Hico-Lite PRO 109	129.50	68.75
Strobaflosh II, batteries	119.40	74.50
ULTRALITZ "JET" latest Bat- BRAND		
tery & AC Reg. 69.50 Special NEW	\$42.50	.....
LENSES IN SHUTTER		
45mm Angulon F:5.8 W.A.	64.95	34.00
90mm Angulon F:5.8 W.A.	74.95	36.00
101mm Trioptar F:4.5 synch.	.....	12.00
101mm Ektar F:4.5, Superm	98.50	34.75
127mm Ektar F:4.7, Superm	91.50	29.00
135mm Zeiss Tessar F:4.5	99.50	29.00
135mm Optar F:4.7, Graphex	95.50	48.00
152mm Ektar F:4.5, Superm	106.00	58.00
180mm Tele Xenar F:5.5 Cpr	124.95	58.50
203mm Kodak F:7.7, Superm	92.50	48.00
12" Ektar F:4.3, Ilex	250.00	165.00
15" Tele-Optar F:5.6 Graph	223.00	128.50
WRITE FOR LOWEST PRICE ***		

SENSATIONAL NEW

NIKON SP

WITH BUILT-IN
UNIVERSAL VIEWFINDER SYSTEM



Provides the precise viewing fields for 6 different focal length lenses—from 28mm wide angle through 135mm telephoto—without need for accessory finders!

- combined rangefinder-viewfinder
- life-size, bright frame fields for 50, 85, 105 and 135mm lenses—with automatic parallax compensation.
- brilliant optical finder for 28mm and 35mm wide angle lenses
- calibrated delayed action timer
- color-coded flash synch control
- automatic 'O' reset exposure counter
- all the "advance-focus-shoot" fast handling features of the Nikon S-2

with 50mm Nikkor f/2..... \$369.50
with 50mm Nikkor f/1.4..... 415.00

NIKON S-2



Its users are among the greats in photography and photo-journalism. Here are some of the fast-handling features that have made it the most exciting camera in its class:

- life-size rangefinder-viewfinder
- rapid, single-stroke film transport
- high-speed film rewind crank
- completely removable back
- "advance-focus-shoot" handling speed
- sensational Nikkor lenses as standard equipment.

with 50mm Nikkor f/2..... \$299.50
with 50mm Nikkor f/1.4..... 345.00

HIGHEST TRADE-IN ALLOWANCES
COMPLETE STOCK OF NIKKOR LENSES
FOR NIKON, CONTAX, LEICA, CANON, ETC.

NIKON BINOCULARS

6x15	\$ 39.50
8x35 Wide Field	109.50
7x35 Featherweight	89.50
7x50 Featherweight	109.50
8x50	125.00
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ALL BRAND NEW, WITH CASE, CENTER FOCUSING	

Gifts
most photographers prefer

... gifts you'll be
proud to give!

WESTON

EXPOSURE METERS

the meters most photographers use

THE LARGE CAMERA

(Continued from page 26)

to-subject distance until the image on the ground glass is "in focus," i.e., sharp. Now, with front focusing, it is impossible to adjust the lens-to-film distance without simultaneously changing the lens-to-subject distance. In long shots the effect of the latter change is so small that it is not noticeable; however, in close-up photography it can become great enough to make it impossible to get a sharp image without making corrective changes in the distance between the camera itself and the subject. This time-consuming awkward seesaw operation makes all press-type cameras unsuitable for close-up photography. Only rear focusing is practical, a fact which leaves this field the province of the view-type camera.

In my opinion, *except for news coverage*, a rangefinder seems incongruous in connection with a large camera. It seems a needless accessory that adds weight and bulk to the camera, complicates it mechanically, is a waste of the buyer's money, and was added only to give large cameras a pseudo-"universality" which could be exploited.

Construction and price

Although they may be designed for the same film size, large cameras vary considerably from one make and model to another with regard to construction, bulk, weight and price.

The most compact type, designed with emphasis on portability, is the usually-rangefinder-equipped press-type camera (typical representatives: Linhof, Speed Graphic). It is also the most expensive type, prices for 4 x 5 models without the lens ranging from \$109.50 to \$495.

The most versatile types, particularly with regard to camera adjustments, are the all-metal monorail and twin-rail view cameras (typical representatives: Graphic View II, Sinar, Linhof Kardan-Color and Brand 17 Universal). Unfortunately, they are also the bulkiest of the large cameras. This can be a real disadvantage if space is at a premium. Prices for 4 x 5 models without lens, \$39 upward.

Standard view cameras are less bulky than monorail or twin-rail cameras, but more bulky, though less expensive, than press-type cameras. Unfortunately, they often have a tendency to be less rigid than any of the other types. Prices for 4 x 5 models without lens, \$79.50 to \$300.

Large single-lens reflex cameras are obsolescent. They do not have swings and tilts, cannot be equipped with wide-angle lenses, and, because their bellows extension is limited, they are unsuited to close-up photography. Their main field is portraiture and figure photography. The only model still in production is the Graflex Super D, 3 1/4 x 4 1/4 and 4 x 5.—THE END

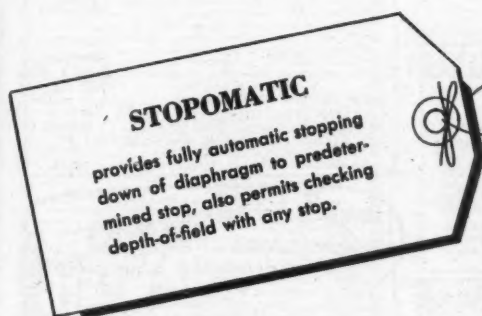
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fully automatic

TELE-XENAR

f:3.5/135mm

for your
EXAKTA



STOPOMATIC
provides fully automatic stopping
down of diaphragm to predeter-
mined stop, also permits checking
depth-of-field with any stop.



*Other Schneider lenses
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Tele Xenar 3.5/90 , preset \$ 74.50

Tele Xenar 5.5/200, preset \$ 99.50

Tele Xenar 5.5/360, preset \$189.50

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Unequalled optical efficiency, plus many significant conveniences, keep TELE-XENAR the overwhelming choice of EXAKTA users the world over. These compact, light-weight tele lenses excel in definition, contrast and evenness of illumination; and with openings marked in 1/3 stops assure the *exact* control essential for precise color work. Other features such as efficient 'STOPOMATIC' . . . the protective lens hood which, when reversed, doubles as a lens shade . . . the use of only light-weight alloys with *completely stable characteristics*, assure years of perfect shooting with your EXAKTA. At all dealers, or write for literature.

TELE-XENAR 3.5/135 Only \$144.50

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SANTA'S BEST '57 GIFT BUYS!

Spiratone is Proud to Offer the Widest Selection of FAN TYPE POCKET FLASH GUNS

All have collapsible fan-type reflectors, making for extreme compactness, without any loss of reflector efficiency! Every model carries standard bayonet base (No. 5, 5M, etc.) bulbs, comes with flashcord for German or ASA bayonet shutters!

- "Economy" Model**, uses penlite batteries, with ejector... **\$2.99⁺**
- "Standard BC" Model**, similar to Economy, but with popular BC Condensor... **\$3.99⁺**
- "Deluxe BC" Model**, has larger reflector than standard, and built-in battery tester built-in... **\$4.99⁺**
- "Super Deluxe BC" Model**, has all the features of Deluxe, topgrain leather case, interchangeable cords... **\$5.99⁺**

For use of guns on Exakta, Praktica, Leica M3, Argus C3, C4, Realist—add \$1.00. Standard flashbracket, fits any gun—\$1.00; deluxe adjustable bracket \$1.75. BC battery for BC models, lasts year \$1.00. **"EXTRA LONG COILED CORD"**, wonderful for off-the-camera bounce flash—only 50c extra. **Sh. Chgs. 10c.**—Name camera when ordering!

A DREAM COME TRUE! POCKET ELEVATING TRIPOD

The two most desirable features incorporated into one tripod: 8 sec. pocket size (only 11" and 8" rise) elevator action, with a positive lock. Rubber foot section, chrome plated brass legs extend to 44" (4" elevator), single action 50° tilt and panhead—ideal for every movie, twinstill, 35mm fan. A \$20.00 value. **Ships Wt. 3 lbs.** For "black" panhead, with 11" camera on/off feature, a \$4.50 value, only \$1.46 extra. **GEARED DRIVE MODEL**, ask for model EL-EPG and add 80c to cost.

3 UNIT REFLECTOR OUTFIT \$5.99

- Two aluminum 10" reflectors for #1 or #2 bulbs
 - One bullet reflector for spot effects
- All three complete with swivel joint, switch, socket, clamp and cord... at a fraction of their usual cost. **Shipping Weight: 7 lbs.** **SUGGESTION: 2 #2, 1 #1 preferred bulbs 9c.**

FREE with \$5.99 or \$7.99 outfit everywhere for \$1.44. Clips onto bullet reflector or flashgun for those beautiful soft portraits.

HI-LO DIMMER SWITCH \$1.98
Composes and focuses in comfort, save WITH \$5.99 electricity, prolong life, retain sub-OUTFIT! It's the natural expression. Nothing like it under \$5.00. When bought alone \$2.98.

PHOTOFLOOD STAND PLUS TWO REFLECTORS

- 3-section metal stand extends 6'4"
 - Sturdy, braced legs with rubber tips
 - Stand telescopes compactly to only 2 feet
 - Positive locking at any desired height
- The ideal indoor lighting system. 22" crossbar, can also be used to hold screen, backgrounds. Two-spun aluminum 10" reflectors for #1 or #2 photofloods, complete with sockets, switches, 5' cords, built-in socket swivel joints, rubber jawed spring clamps. Can be used on cross bar or turntable. **Shipping Weights: Stand & lbs.; Reflector & lbs.** Extra clamp on bolt with built for semi-spill. Extra photoflood stand with regular crossbar.

METAL SNAKE CHAIN \$1.29

FOR EXAKTA, LEICA, RETINA, PONY AND OTHERS. Smoothly suspends camera at chest height for worry-free carrying without case! Elegant, practical, safe and luxurious at half the usual cost! Extra heavy Snake Chain, a safety-lock \$1.98. **Shipping Charge 10c.**

SPIRATONE VALUES FOR YOUR ARGUS C3

135MM F:4.5 \$29.95
SOLIGOR TELEPHOTO Reg. \$49.95

Cooled, color corrected, couples to rangefinder, depth-of-field scale, with viewfinder mask. Quick-change Coupling Car. reg. \$2.95—only 90c when bought with lens. **Leather Pouch—\$1.98** Sh. Ch. 75c.

- ACCESSORY CLIP \$1.00**
easily installed on all model Argus C3 cameras
- POCKET FAN FLASH**
for C3 Model \$4.99
- TIFFEN DIAPHRAGM CONTROL \$1.50**
makes diaphragm settings with aux. lenses, filterholders, etc. easier for C3
- COILED 5 FT. FLASHCORD**
for C3, for off-the-camera and bounce flash, through case. **\$1.98** Sh. Chgs. 10c
- DELAYED ACTION TIMER**
screens into cable release \$1.98. Model with slow speeds time ex. (10 seconds) **\$2.99**
- 3 PC. EXTENSION TUBE SET**
for extreme closeups to 2" reg. \$5.95 for C3. Sh. Chgs. 10c **NOW \$2.98**

SENSATIONAL SAVINGS ON TWO-POCKET PIGSKIN GADGET BAGS

The new Spiratone Two-Pocket Genuine Topgrain Pigskin bags are really what you wanted! They have handy wrap-around zippers, zippered filter pocket inside cover, chrome hardware, tripod holders on the bottom and two outside pockets for easy separation of accessories. And the prices are lower than those of plastic bags!

'Standard', 10 x 8 x 4... **\$6.89**
'Giant', 12 x 9 x 6... **\$10.80**
Medium, 11 x 8 x 5 1/2... **8.89** **Shipping Weight 3 lbs.**

CHANGING BAG

ONE OF THE MOST IMPORTANT "TOOLS" OF ANY PHOTOGRAPHER

Double zippered inner and outer bags, made of the finest cloth, make this bag 100% light proof even in brightest sunlight. Whether for use in an emergency, with a film torn or pulled off the spool in a 35mm camera, or for reloading cut film holders or for developing film when no darkroom is available... the changing bag is justly referred to as a "portable darkroom". 17" x 16" working space and elastic sleeves.

All these features at the lowest price a quality changing bag that was ever offered at. **Shipping charge 25c.** **PROFESSIONAL MODEL: 27" x 20" working space, \$11.80** **value! Shipping Charge 50c.** **Spiratone priced at \$6.95**

10 FT. CABLE RELEASE \$4.49

with set screw and booster spring. A sturdy constructed German cable for remote control work to operate with any known or common type shutter. Imagine the many new possibilities this release opens up for you! Whether you photograph wild animals, unsuspecting children at play or take a self-portrait, you'll find this release a valuable accessory. **Leika model add 25c! Shipping Cost 25c.** Other long Cable Releases with set screw: 40" \$1.50 60" \$2.50 20 ft. \$7.95 40 ft. \$12.40

SYNCH YOUR OLD CAMERA

- Fully adjustable mechanical tripper, requires no installation, works through standard cable release socket of most old cameras. Has fitting for standard flash cord.
 - Allows adjustment for flash bulbs and PPD.
 - Zero (X) delay for Strobe.
- Tripper with BC Fan Flash, with ejector, tester... **\$8.95**

1958 MODEL ALL-METAL RANGEFINDER \$2.95

Employs super-imposed image system for rapid, accurate focusing from 2 feet to infinity! All-metal construction, leather covering, modern styling in feet and meters. **FREE: PLASTIC STORAGE CASE**

COILED FLASH CORD \$1.98

- Now available for most shutters. Sh. Chg. 10c
- Coiled cord extends 5 ft., yet coils up without effort to only 7".

So handy when you want to hold flash away from camera, place electronic flash closer to subject than camera! Available with standard polarized household type plug for Heiland, PR, H, Graflex, etc., and prong-type for Kalari, El Compur, Promator, S. ASA (Kodak), Solenoid, Argus C3, C4, C44, Realist, Praktiflex, Exakta, most other synchro. terminals.

NEW COILED CORDS: Bullet Lock, Nikon S-2, \$2.25

camera when ordering. Canon, Leica 3F, 3B, M3, Signet 40.

TIME EXPOSURE & DELAYED ACTION NOW ADDED TO EVERY CAMERA

NEW 1958 MODEL SELF-TIMER \$2.99
This popular self timer adds to your camera a feature many a photographer has paid a small fortune for! It slows speeds from 1/2 to 1 second to ten seconds! Fits directly into standard cable release socket. **Ship. Cost 10c**

JUMBO PRESS BAG \$15.89

Top Grain Cowhide. 16" x 11" x 6" the size bag you expected to pay \$50.00 for! And made of a beautifully finished topgrain cowhide, too! No zippers—just bond cover back and everything becomes accessible. Felt-covered adjustable partition, imported hardware, long shoulder strap, attached to strap around bag for easy carrying of tripod. **Ships Wt. 6 lbs.** **ECONOMY SIZE, 11" x 9" x 6" same construction as above—\$10.49**

SEKONIC EXPOSURE METERS

SALE! NOW YOU CAN BUY THESE FINE PHOTOELECTRIC EXPOSURE METERS AT THE LOWEST SAVINGS.

SEKONIC Leader has ASA speeds 6 to 800, for openings f/11 to f/32, settings for stills and movies, also light value shutters, 16 page instr. booklet. Reg. \$8.49. **\$4.99** including leather ER case and metal clamp. **Ships, Chgs. 30c per meter**

SEKONIC Compact has ASA speeds 10 to 800, for openings f/11 to f/32, fits into accessory clip of all popular 35mm cameras. For re-incident and incident light. Reg. \$9.95. **\$5.25** including leather case \$5.25

These Sekonic Meters are slightly shoppier, but unconditionally guaranteed by importer.

SPIRATONE INC. 369 7th AVENUE, NEW YORK 1, N. Y.

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ASA 4000? Try the new "miracle" ULTRASPEED film!
35mm DUPONT S-X PAN 20 exp. **70c**

Normally rated at ASA 300, good results are obtained at ASA 1,000 and 2,000. Popular Photography's editors report in the Aug. 56 issue of available light shots at ASA 4,000! S-X Pan has unusually fine grain and extreme exposure latitude—truly a film of the future! 20 exp. roll, 36 exp. roll, 127 1/2 ft. bulk, 50 ft. bulk, 100 ft. bulk. **70c-3 for \$2.00 \$1.00-3 for \$2.75 \$2.22 \$3.78 \$9.99**

TESTED SAFETY KODAK B&W FILM

All three popular speeds, Panatomic X (Blackground X), Plus X and Tri-X are available in 27 1/2 ft., 50 ft. and 100 ft. lengths and 28 and 36 exposure reloads.

PANATOMIC X; PLUS X (ASA 80); TRI X
27 1/2 ft. **\$1.39** 50 ft. **\$2.29** 100 ft. **\$3.98**

COMBINATION SPECIAL
Daylight Leader with 5 cartridges and 100 ft. of Kodak Plus X or Tri-X or Panatomic X, or 50 ft. of Adox... **\$7.99**

B&W RELOADS
In metal cartridges may be assorted 20 EXP. 30 EXP. 40c ea. 60c ea. 8 for \$2 4 for \$2 Ship. Chgs. 1 or 8 5c; 9 to 6 80c; 7 to 12 25c.

ALL YEAR B&W ASSORTMENT
Daylight Leader with 5 cartridges plus 27 1/2 ft. of Panatomic X, Plus X, and Tri-X. **\$8.98**

35mm DAYLIGHT LOADER

INCLUDING 5 CARTRIDGES
\$4.95 IF PURCHASED TOGETHER WITH MINIMUM OF \$7.95 WORTH OF BULKFILM.

It's so simple to take advantage of the exceedingly low cost of 35mm bulkfilm and to load any desired length into a standard Eastman cartridge. First few reloads already make loader pay for itself. Loader alone with 5 cartridges, **\$5.95**. **Sh. Wt. & lbs.**

DELUXE LOADER, with automatic cammer, accepts also Leica, Contax cartridges. **\$10.85** or add \$3.00 to Loader comb. offer.

Greater Savings than ever on 35MM ADOX FILM

FRESH SAFETY IN CARTRIDGES AND BULK

Your choice of KB14, KB17, KB21 **Shipping Charge 10c**
20 exposure reload 50c; 3 or more may be assorted 45c each.
36 exposure reload 75c; 3 or more may be assorted 70c each.
50 ft. \$2.48, 100 ft. \$4.50—**Ships, Chgs. 25c per 50 ft.**
Daylight loader, with 50 ft. Adox film... **\$7.99**

2 x 2 GLASS SLIDEBINDERS

- Comparable to 6c slideholders.
 - One of the finest methods of mounting transparencies (35mm Argus, Leica size) betw. glass! The biggest bargain in quality slidebinders ever offered. Prugrammed Fiberglass, self-centering of slide, provision for type-on titles, dustproof, lintfree, shockproof—all these advantages are yours for less than the usual cost of glass alone! Why risk fingerprints and scratches on your irreplaceable color shots? 250 for \$6.75. **Shipping Weight 5 lbs.**
- Sample packages of 20 2x2 glass and 3 2x2 metal binders, postpaid... **\$1.25** 800 for \$20.95
- 200 singleframe (Mercury) Masks \$1.75 1/2 Masks fit glass 200 Square (Robot, Tenax) Masks \$1.75 1/2 & metal binders 2x2" cardboard mounts for single frame (Mercury size) transparencies 50 for \$5c. **Sh. Wt. per 100; 1 lb.** 2400 for \$20.95

SAVE UP TO 50% ON Remote Control Unit for Airequip

Now you can operate your Automatic Slide-changer (Airequip, Drumberger) at distances up to 15 ft. — a feature you'd have paid \$50.00 more for in other projects!

WAS \$29.95 NOW \$14.95 when bought with 12 or more magazines

AIREQUIP MAGAZINES

2 for \$3.18 12 for \$18.95 **Sh. Wt. 2 & 1/2 lbs.**
12 magazines and \$3.95 Remote Control Unit bought about \$19.95
8 AIREQUIP MAG., in luxurious metal case, \$12.47
holds 121, alone a \$7.95 val. Sh. Wt. 4 lbs.
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SLIDE TRAYS for TDC, VIEWLIX

Changomatic, Projectomatic, Powermatic. Extra strong plastic trays, hold 30 cardboard and glass slides, intermixed, with index. **Ships, Wt. 2, 7, 22, 50 lbs.**

in lots of 12 4 for \$1.85 12 for \$4.98 48 for \$12.80 120 for \$36.00

12 Trays in metal deluxe case, a \$13 value—\$7.98 **Ships, Wt. 1 lb.** **Sturdy carry case for 12 (illustrated below)—only 50c extra**

SLIDE TRAYS for REVERE

Sturdy trays, hold 36 cardboard and glass slides, intermixed, with index. **\$5.55** **RRP**

12 in carry-ing case. **\$8.95**
12 in deluxe storage case. **\$13.49** **Ships, Wt. 6 lbs.**

REVERE 800 SPECIAL: Revere Control 18 lb. Release plus 12 slide trays in Carry Case—\$12.48, in deluxe storage case—\$18.85
Deluxe Storage Case for Revere Trays, leatherette-covered. Reg. \$9.95. **Spiratone priced at \$5.95**

FREE with 12 trays or 6 magazines: 10 2x2" COLOR SLIDES or 36 exp. 35mm MICROFILM FILM.

135mm f:3.5 PRESET TELE \$29.95

for Kine Exakta, Praktika, Praktiflex, Contax S, D, BA, Pentacast. Never before was there a value like this! These famous make lenses are faster than most (you'd usually get an f:4.5, if you used under \$40), have expensive heli-coated, an excellent hard coated, color corrected four element optical system; a pre-set diaphragm; and, because they are "true" telephoto lenses in design, are short and light in construction!

ULTRASPEED 135mm f:2.8 PRESET TELE

COMBI. OFFER — 135mm f:3.5 preset, plus 35mm f:3.5 ctd., color-corr., pre-set wideangle—both for only

\$38.95

\$69.95

\$88.95

1.5MM Lenthor Pouch \$1.90 45MM Deluxe Lens Case \$8.00

225MM LENS CONVERTER, WHEN BOUGHT WITH 135MM LENS

\$11.95

35mm WIDEANGLE LENS SALE

From Europe and from Japan, we have, after careful testing, selected wideangle lenses which are unequalled in quality, unobtainable in price. With our usual warranties, we are proud to offer these fine coated, color corrected, brand new 1958 model lenses:

	FOR EXAKTA, CEA	FOR PRAKTIKA, PENTACAST, BA	FOR LENTHOR, CANON	FOR LEICA, CANON
35mm f:3.5 pre-set	\$38.95	pre-set \$38.95	ff-cpld \$38.95	\$44.95
35mm f:2.8			ff-cpld \$48.95	\$54.95
35mm f:3.5 automatic	\$55.95			
35mm f:2.8	pre-set \$48.95	pre-set \$48.95		
28mm f:3.5	pre-set \$78.95	pre-set \$78.95		

Leather Case \$3.00, Leather Pouch \$1.25, Sh. Chgs. \$75c.

35mm ANSCOCHROME

20 Exp. Each \$1.87; 3 rolls \$5.57; 6 rolls \$10.47

For critical LEICA, CANON owners

UNIVERSAL ZOOM FINDER \$14.95

LATEST 1958 MODEL

For Leica, Contax, Argus, in FREE Case with

stainly shows correct lens to focus. Zoom Finder use! Parallax-corrected. Shpg. Chgs. 35c.

SYNCH YOUR OLD LEICA, CANON FOR FLASH OR STROBE \$34.95

No installation—just one quick adjustment over release button and you are set for flash shots at speeds to 1/30th. Tripper accepts standard flashcords—or buy from us with flashgun to fit accessory clip.

Features BESS KONTAK, synchronizes Leica IIIA, IIIC, cameras even at high speeds, was \$19.95 \$8.95

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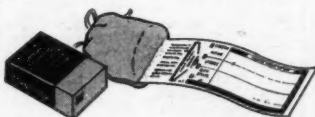
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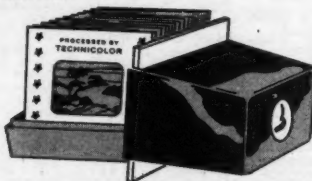


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modern COLOR

by NORMAN ROTHCHILD

Experiments with Kodacolor exposure: Why your prints may not turn out just as they should.



Kodacolor film, once considered suitable only for a box camera (and sometimes not even suitable for that), has come a long way.

Today, in its improved state, this film (which produces prints directly, rather than transparencies) can be found at work in leading photographic studios. Photojournalists are now using it.

The increase in acceptance is easy to understand. Who wouldn't like a universal film which could be used under many different light sources without filters?

Since Kodacolor comes only in roll film sizes (unless you want to count the Bantam 828 size as 35mm), there has been an envious gnashing of 35mm photographic teeth. Of course, Kodacolor or something like it will undoubtedly appear sooner or later in 35mm. Meanwhile, owners of roll film cameras can have a field day with Kodacolor.

What's wrong with my prints?

If you're a serious amateur or professional photographer and have decided to give Kodacolor a whirl, you'd better look into the Kodacolor printing situation. It may come as a disappointment to a lot of color photographers that quality in color printing can vary just as much as quality in black-and-white print finishing. Actually, as with black-and-white finishing, you can get either inexpensive quantity work which is okay for the ordinary snapshot, or you can get careful custom processing of your prints. Naturally, custom processing is more expensive.

How do the labs differ?

Regular photofinishing labs offer good quality developing and printing at moderate cost. They generally charge anywhere from 32¢ for a small fixed-size Kodacolor print to about \$3.50 for an 8 x 10.

These labs aren't geared to anticipate your aesthetic whims. They try to make what most of their customers would consider pleasing color pictures. For the most part, these are average snapshotters who want record shots of family and friends.

(Continued on page 40)

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MODERN COLOR

(Continued from page 38)

If you try some unusual or unorthodox technique, such labs will tend to treat your interpretive efforts as "errors" and negate them by printing "correctively."

Let's consider some unusual shots you might try, and see how a regular photofinishing lab might treat them.

For example, your subject is facing the setting sun so that the sunset does not actually show in your picture. You want to contrast the reddish glow on the face with the blue sky background. The lab, unable to read your mind, would undoubtedly try to correct the "excessively red" flesh tones.

Take another example. Suppose your subject is posed in front of a window, half his face lit by blue skylight from outside. The shadow side you illuminate with photofloods. Your intent here is to contrast the blue exterior light with the warm indoor light.

In this case the lab might "split the difference" between the two types of light and make a print in which the exterior was rendered too warm and the interior too cold.

Negatives in which the main subject is surrounded by large dark masses, or by very light masses, may not be printed just as you'd like them to be. Consider, for example, a shot of a sunlit flower against a shadowy forest background. A negative of this sort would be given a short print exposure in order to preserve shadow detail—resulting in weak shadows, and highlights lacking full depth.

On the other hand, if you photograph an amber cocker spaniel against a very light background, the dog may turn several shades darker in the print as the lab attempts to print some detail into the highlights.

Note that in both these examples the lab has no real clue to help it guess just what effect you are after. It cannot surmise how deep the color of the flower ought to be, nor can it know the exact shade of your dog's hair. If flesh tones were involved, the lab would, of course, try to render these pleasing and let other objects more or less take care of themselves.

Experiment at your own risk

There are times when you might like to experiment with intentional blur, or throw most of your picture out of focus for artistic effect. Again, unaware of your purpose, the lab might very possibly reject these negatives as "fuzzy" and leave them unprinted.

You can, of course, include a note with your order explaining to the printer just what you have in mind, although this would probably delay the return of your prints. The lab would also hold you fully responsible for results. Remember that their relatively low charges are simply for printing your negatives and they do not and

(Continued on page 42)

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MODERN COLOR

(Continued from page 40)

cannot include responsibility for special artistic interpretations.

Custom labs and services

If you want special attention for your Kodacolor negatives—and are willing to pay extra for it—then you'll want to take your work to a custom lab, or to the custom department of a regular laboratory. Such outfits can and will make prints to your specifications. They'll undertake to lighten areas by dodging, or darken by burning in, alter the overall color of a print, intensify or alter color in a given area, and do special cropping.

An interesting service offered by some custom labs is the contact sheet, on which all the negatives from a 120, 620 or 127 roll are printed. Perusal of the full sheet lets you choose the negatives you wish to have enlarged—indicates what corrections you'll want to have the printer make in the finished enlargement.

The contact sheet can then be used as part of your filing system.

Your own darkroom

If you want really "tailor made" Type C color prints and enlargements, then the best place to get them is in your own darkroom. The process requires little in the way of special equipment—little practice to become a proficient print maker.

Admittedly, it takes more effort to do it yourself than to let the lab do it for you. But there's no substitute for that feeling of pride when you can say of a big, colorful, artistic print—"I made it myself."—THE END

WHAT'S AHEAD

(Continued from page 20)

ment, black-and-white negative materials can be used as if they had an exposure index over ten times that determined according to the American Standard method. This does not indicate a deficiency in the standard but results from variables in scene structure which add to the standard's safety factor, and from the effects of developers with higher energy than those used for the Exposure Index determination.

Mr. C. J. Bartleson of Kodak discussed the influence of an observer's visual adaptation on his acceptance of color prints. His findings show that when color prints have a neutral balance under standard viewing conditions they remain rather acceptable under varying conditions of viewing. However, off-balance color prints tend not to be as readily acceptable to most observers when the viewing conditions change.—THE END



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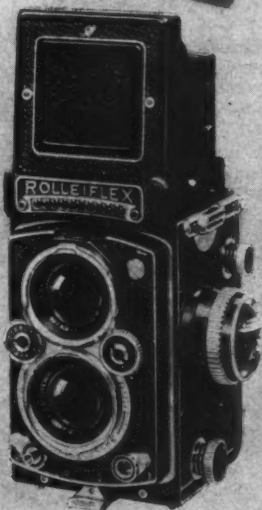
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the MOVIE MAKER

by MYRON A. MATZKIN

Super Anscochrome, fastest color movie film yet, may herald new era in home movie making



Ansco has just announced the availability of 16mm Super Anscochrome movie film. Super Anscochrome, with an exposure index of 100, is 10X as fast as the older color films and 3X as fast as regular

Anscochrome. It has greater latitude than any other reversal color film—that is, it will still give good color rendition even when your exposure is not right on the button. But, it's also a bit more grainy than other films. Super Anscochrome can be intercut with regular Anscochrome—making a fine film combination that will cover normal light situations and many difficult exposure problems.

There can be little doubt that Super Anscochrome is a special purpose film. I found it much too fast to be used at the beach, for example. Under a bright sun my reflected light meter indicated an exposure of about f/28 at 24 fps. Most normal and wide-angle lenses just don't have such small diaphragm openings.

In making tests on Super Anscochrome I waited for a time near sunset before shooting. Some ten minutes before the sun disappeared completely, I began shooting at f/6.3 at 24 fps. and continued to shoot on and off until about 15 minutes after sunset. With other color films, even regular Anscochrome, shooting that late meant settling for the color in the sky and letting people in the scene go completely black in silhouette. I also did some shooting at sunrise and later.

Other tests were made under conditions that were once impossible—unless you used special processing for your regular Anscochrome.

While the meter indicated that Super Anscochrome was quite a film—only actual projection would tell us the entire story. We wanted a fair projection test—under conditions that would be encountered in ordinary home movie showings. The processed film was projected on a machine equipped with a 1000-watt lamp. Screen to projector distance was 24 ft.

The first, and one of the most startling things we noted was the lack of overall red saturation in film shot early and late in the day. It appeared to us that no more than the normal amount of red light typical of that time of day was present in the film. Shadow areas did not reflect blue light—a problem with other color films.

Color rendition was described as breath-taking by several people who saw the tests. They felt that Super Anscochrome came closer to true life colors than other films. Anscochrome was rated especially accurate in recording various tones of red.

Latitude, the amount of under or overexposure permissible for good footage, increases with speed in black-and-white films. It followed that the same should be true of color film.

This appears to be true of Super Anscochrome. I found film underexposed as much as 1 1/2 stops to be acceptable. On the overexposure side, good quality color was achieved with even one full stop more exposure.

Underexposure of about one half stop appeared to give a pleasing increase in color saturation while overexposure tended toward producing high key footage.

A word of caution, here. How much over or underexposure you can tolerate is strictly subjective. No one but you can decide if the effect is good or bad. Your audience should also be taken into consideration. The latitude of Super Anscochrome can be employed to gain special effects—but the ability of an audience to accept them must be considered.

Grain, too, is a matter of subjectivity. It's up to the individual. I've noted that where subject matter is engrossing, the audience never seems to notice graininess.

Ansco may have started an argument that will keep movie makers boiling a long time. The debate will be between the conservative and the more experimentally-minded film makers. The more conservative will question the value of a film that's difficult to use in bright sunlight. The other group will visualize the film as the key to a new era of movie making. NOTE: You'll find reports on some of the latest 8 and 16mm movie equipment on pages 113 to 115 in the special reports section of this month's MODERN.

—THE END

PICTURES in a MINUTE

by JOHN WOLBARST

One-hand loading is a helpful technique which all Polaroid Land camera users should know.



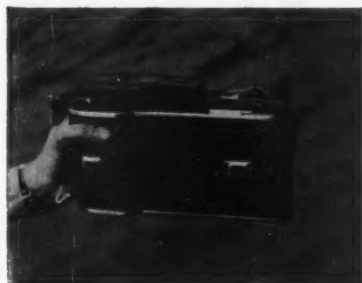
In the ordinary course of events, reloading a Polaroid camera with a new picture roll involves these steps: Push the shutter and lens back into the camera body; depress the struts

holding the camera front open and fold it shut; lay the camera down on some flat surface and open the back for loading. Of course, if you have a friend handy, someone can hold the camera while you open the back for reloading, but that makes it a two-man-four hand operation.

Here's a simple way to do it all with one hand, without having to put the camera down at all. This is particularly important if you're someplace where it's just impossible to lay a camera down—standing on sand, in the water, mud, or in some other odd situation.

Before starting the steps shown, I suggest you get the film package open. This is most easily done by passing a few fingers (no more than five, please) of the left hand through the leather carrying strap so that thumb and fingertips are available for holding and/or ripping the package, which is grasped firmly in the right hand by as many fingers as you happen to have. Get the film rolls out of their multitudinous protections, but don't open the final seal (a bit of sticky tape) until the

(Continued on page 46)



1. It all starts with a good, firm, left-hand grip. Fingers are under the carrying strap, and wrapped around the camera so the fingertips are right inside the body.

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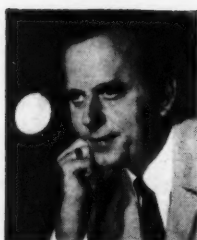
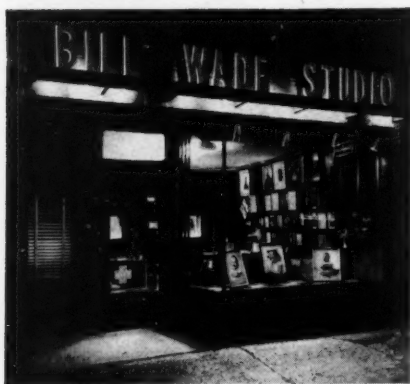


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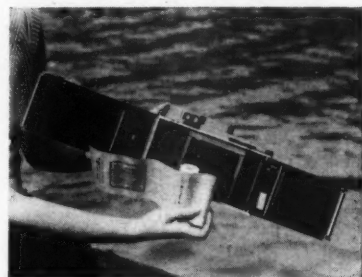
PICTURES IN A MINUTE

(Continued from page 45)

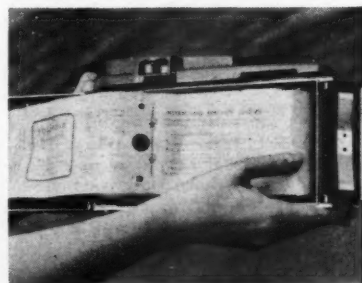
camera is open, unloaded, and ready to reload. Then it's easy to rip the seal open, either with one finger or by biting it (if you have teeth and are not too worried about sanitation).

Anybody who has ever used one of the larger size Polaroids knows it is heavy, and the prospect of juggling it in one hand may chill a few people. However, loading is done so quickly that holding the camera is no hardship, even for the delicately constructed ladies. I know, I tried it on my wife.

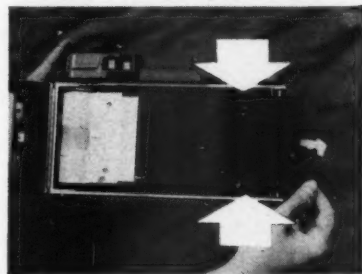
So, now look at the pictures and then try loading your next roll this way.



2. Unlatch the camera back; lay the outer back against your forearm; let the inner back down *gently*, so it dangles from its hinges without tearing them loose. Break film package seal, hold rolls like this.



3. Usual procedure is to insert negative (small) roll first, then positive (large) roll. For one-hand loading it may be easier to put the large roll into its chamber first, then unwind leader and insert small roll in proper chamber.



4. With leader in proper position (photo 3), close inner back (above) and stretch leader carefully between film guides (arrows).

(Continued on page 48)

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2 1/4 x 3 1/4 Dajur II, f4.5, Cond.	99.50 58.50
2 1/4 x 2 1/2 Esact 44, f4.5, Cond.	142.75 79.50
2 1/4 x 3 1/4 Solar 120, f4.5, Cond.	114.50 47.50
2 1/4 x 3 1/4 Survey, f4.5, Cond 4 x 5 Federal 470, f4.5, Cond.	87.50 59.50
4 x 5 S. Scleromatic, f4.5	142.95 85.50
5 x 7 Elwood S-2, f4.3	169.50 104.50
5 x 7 Elwood SP-25	97.50 67.50
5 x 7 Elwood SP-25	177.50 99.50
5 x 7 Solar	84.50 48.00

PRESS CAMERAS

NEW	USED
2 1/4 x 3 1/4 Pacemaker Crown, f4.5, cpld RP	299.50 117.50
2 1/4 x 3 1/4 Ann Speed Graphic, f4.5, cpld RP	219.50 88.50
3 1/4 x 4 1/4 Ann Speed Graphic, f4.5, cpld Rangefinder	63.50
3 1/4 x 4 1/4 Pacemaker Crown, f4.5, cpld RP flash	117.50
4x5 Speed Graphic, f4.5, CRF	349.00 99.00
4x5 Pacemaker Crown Graphic, f4.5 CRF	299.00 119.00
4x5 Linhof, f4.5, cpld RP, flash	427.50 109.50
4x5 S&W, f4.5, cpld RP, flash	255.00 87.00
4x5 S&W, f4.5, cpld RP, flash	343.00 89.00

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NEW	USED
88M 252, f2.3	89.95 23.00
88M Sportster, f2.8	89.95 26.50
88M 172A, f1.9 Turret	199.95 114.50
88M 172B, f1.9	144.95 87.50
Keystone K-40, f1.9	104.50 42.50
Keystone K-40, f1.9 Turret	139.50 79.50
Kodak Mag, f1.9	149.50 51.00
Revere 40, f2.5	108.50 47.00
Revere 44, f1.9	144.00 59.50
Revere 44, f2.5 Turret	182.50 79.50
Revere 80, f2.5	97.50 38.00
Revere 84, f1.9 Turret	147.50 79.00

8mm PROJECTORS

NEW	USED
88M 253 Monterey, 500w	79.95 39.00
88M Regent, case 500w	179.95 78.95
Keystone K109A, 750w	149.50 85.00
Keystone K-70, Bright beam 500w	64.95 34.00
Kodak Brownie, 300w	62.00 38.00
Revere 10, 750w	125.00 61.00
Revere 85, 500w	114.50 42.50

16mm PROJECTORS

NEW	USED
Bell & Howell 273 A, case	199.95 98.00
Bell & Howell 202 C, sound	719.95 347.00
Bell & Howell 280C, sound	449.95 263.50
Kodak A-82	139.50 63.95

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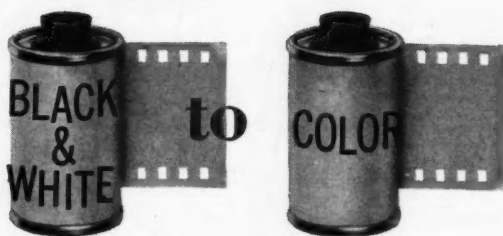
Prices F.O.B. N.Y. Estimate & include postage and insurance. Overpayments refunded. Prices listed are our net, and do not indicate availability of all times.

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NEW YORK 17, NEW YORK

CYPRESS 9-5610

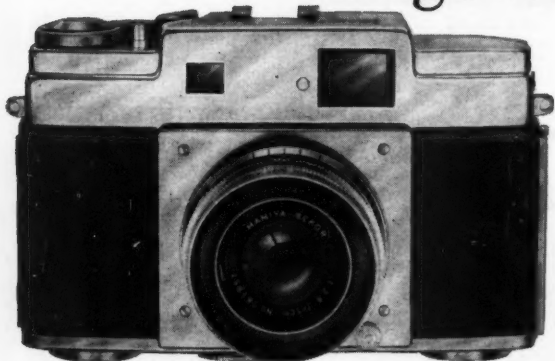
now you can
switch from



in the middle of a roll

with the new

MAMIYA 35
magazine



Loaded with black-and-white. Suddenly you spot a scene that cries for color. 16 exposures to go. What to do...? Time was that you had to "use up" the 16 exposures, or shoot in black-and-white, or forget the whole thing. No more, thanks to the Mamiya Magazine '35'. Just remove the film magazine loaded with black-and-white; lock in a magazine loaded with color. It's like having two fine cameras in one!

Mamiya Magazine '35' with interchangeable film magazines plus all these feature advantages: precision rangefinder combined with large, bright frame viewfinder in single window; single-stroke film transport; fast, sharp f/2.8 Mamiya-Sekor Lens; shutter speeds to 1/500th, with built-in M-F-X flash synch and "light value" system. Each film magazine has its own exposure counter (with automatic 'O' reset) and its own ASA film rating reminder.

\$89.50 with single film magazine; **\$117.00** with two magazines; additional magazines **\$32.50** each (including carry-pouch).

For complete details, write to Dept. MP-12, Mamiya Division, Caprod Ltd., 251 Fourth Avenue, New York 10, N. Y. In Canada: Precision Cameras of Canada, Ltd., 77 Vitre Street W., Montreal.

PICTURES IN A MINUTE

(Continued from page 46)



5. This is tricky—be careful not to get fingers caught between outer back and camera body. You can get a nasty pinch. Object is to tilt camera so outer back swings slowly shut. Or, you can force it shut by pressure with the heel of your left palm.



6. With right hand, clamp outer back shut, manipulate latch to lock camera closed. That's it.

Free Literature

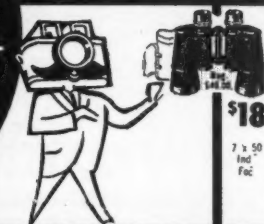
In celebration of its 58th year in business Central Camera Co. has just published a 52-page, illustrated catalog of thousands of its **photographic items**. For your free copy, write Central Camera Co., 230 S. Wabash, Chicago, Ill.

Detailed data on the use of **Enteco close-up lenses** of from plus 1 to plus 10 diopter power is given in the new edition of the Enteco Close-up Data and Information Charts. There are also tables which give focus settings, correct distances from close-up lens to subject, and field sizes for lenses of various focal lengths. For your free copy, write to **Enteco Industries, Inc.**, 610 Kosciusko St., Brooklyn 21, N. Y.

Amplex Photolamp Corp. has put out a one-page sheet describing its new **baseless flashbulbs**. The sheet lists prices of bulbs and of the adapter base, which fits all standard base cameras and reflectors. Exposure guide tables for black-and-white and color film are also included. For your free copy, write to **Amplex Photolamp Corp.**, 111 Water St., Brooklyn 1, N. Y.

Bass says:
these are last
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8mm. Electric Eye Movie Camera
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Brand New Kodak Retina IIIC
Unmatched versatility.
Built-in photo electric exposure meter. CPL. RF.
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Case—Reg. \$14.94 SPL. \$9.99
Retina IIIC Camera F7.8—
Add Postage 75c **\$87⁵⁰**

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G.E. PR-1 EXPOSURE METER
for use with still and movie cameras. Measures both incident and reflected light. ASA calibrated from 2 to 1600; 120 to 1/3000 sec.
Postage 35c
Reg. \$27.50 **\$16⁵⁰**

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Single lens type with eyepiece prism viewfinder. CPL. film transport. 1 sec to 1/1000 sync. for strobe and flash. Delayed action F/2 pre-set Biotar Lens. Add postage 75c
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Famous Tasco prism type. Superior optical quality.
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16 x 50 C.F. SPL. 27.49
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Complete with leather straps and cases.
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20 or 36 exposures. F/3.5 lens. cpld. RF. flash 1/5—300 sec. Add postage 75c
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Big Value! Photo Electric Cell Exposure Meter

Clip-on type. Reflected or incident light. High and low sensitivity scale. ASA film index. Genuine leather case. Add postage 25c



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Deluxe Carrying case Reg. \$ 7.85 SPL. **\$5.50**

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30 x 40 **\$7⁴⁹**
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Exceptional value. Beaded screen assures bright, sharp projection for B&W or color.
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Consists of Super Action Viewer, President Jr. Splicer and President Jr. '800' rewinds . . . all mounted on sturdy board. Large viewing screen, simplified threading . . . brilliant optical system and color operation.



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 THE FR CORPORATION • NEW YORK • CHICAGO • LOS ANGELES
FR 92

35 MM

by JOHN WOLBARST

A simple, new gadget offers fascinating possibilities for developing 35mm films by inspection.

According to some people, development by inspection is a confession of failure—failure to expose the film correctly, failure to know the exact developer-time combination to bring out the desired densities in the negatives, just general failure to reduce the mechanical aspects of film processing to a simple, almost automatic routine.

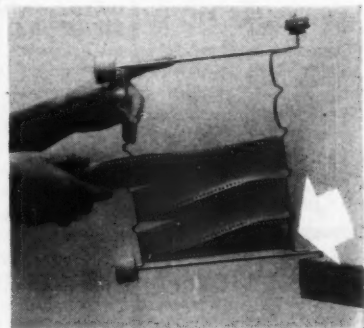
Personally, I don't agree with this attitude, even though most of my films are developed according to well proved time-temperature data and I don't see what "came out" until they're hung up to dry.

In these days of fast films, available light (or darkness) snapshooting, varied light sources, and general excitement, it's frequently hard to say exactly what's on the film, and that's where inspection development can be of help.

With 35mm films, which come in lengths up to about 5 ft., the physical problem of inspecting the film has always been a sticker.

In those commercial labs which cater to professionals, the films are inspection-developed in deep tanks—the whole film strips hang straight down from a clip, with a weight on the bottom of each to hold it steady. Every so often the technician raises the overhead rack sufficiently to reveal the

(Continued on page 52)



1. Simplest way to handle frame in dark is to drill small hole in something, use one end of frame as pivot. Loading starts by engaging sprocket holes with two small pins (arrow). Film is wrapped on with emulsion facing out.

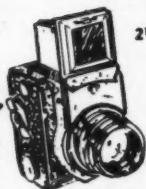
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2.30 post & handling
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16mm

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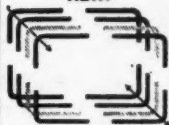


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35MM

(Continued from page 50)

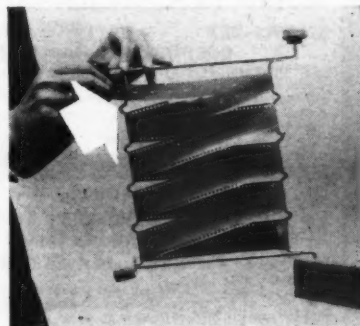
entire lengths of film, glares at them awhile under a dim green light, removes those lengths that are ready, dunks the rest into the tank for further development. If one part of a strip is obviously much more heavily exposed than the rest, this section may be snipped off, leaving the rest for more time.

Just try that some time with the average 35mm daylight tank reel. Even the best of the darkroom boys can hardly get the full length of wet, slippery film off the reel, fully inspected, and on again quickly without a good chance of scratching it.

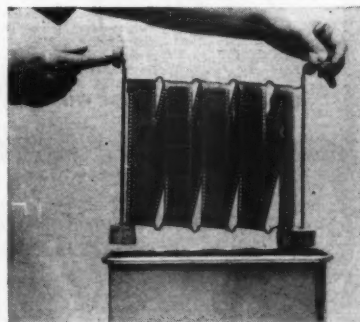
Besides, inspection development is more than just glancing at the film once to see if it's "done." The comparative rate of development of the various parts is important too, and this means looking at the film several times. It's just not easy and practical with a reel-type tank.

For these reasons I was delighted to discover what seems to be an intelligent approach to solving the problem.

(Continued on page 56)



2. Other end of film is grasped by spring clip attached to heavy elastic band. Appropriate hole in elastic engages peg (arrow); band holds film in place on frame.

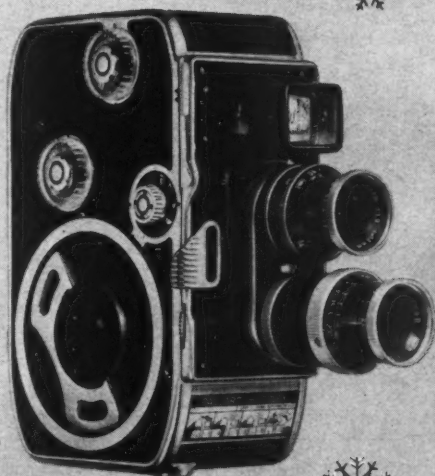


3. With entire film strip open to view, it's easy to check development progress of up to 5 ft. of 35mm film at a glance. Here (left to right) row 1 is obviously underexposed and needs pushing, rows 2 and 4 are done, row 3 is nearly done. Film should be snipped apart in deep pan of water.

NOW BOLEX OFFERS 3 GREAT 8 mm MOVIE CAMERAS

New for Christmas from Switzerland

new **BOLEX B-8** with **Variable Shutter**



FOR EASY FADES, NEW DEPTH-OF-FIELD CONTROL, SHARPER ACTION

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Sharper Action. Cut exposure time by partly closing shutter. This means less time for your subject to move and blur your individual frames. Result is sharper scene detail, brilliant stop-action shots.



The secret to easy professional-like movies is right at your fingertips in this new miracle control from Bolex. This jewel-like precision extra does the work for you. Scenes get that smooth Hollywood look from beginning to end. Your pictures will have a sharpness never before attained. Ask for a demonstration of the Bolex B-8 with Variable Shutter at your Bolex dealer's today.

The Bolex B-8 with Variable Shutter, as pictured, with Yvar 1/2" F:1.9 & 1 1/2" F:2.8 lenses, \$217.00.

B-8 with Variable Shutter and Yvar 1/2" F:2.5 lens, priced at ... **\$134⁵⁰**

There's more Christmas in the **BOLEX** **B-8 & C-8 Movie Cameras**

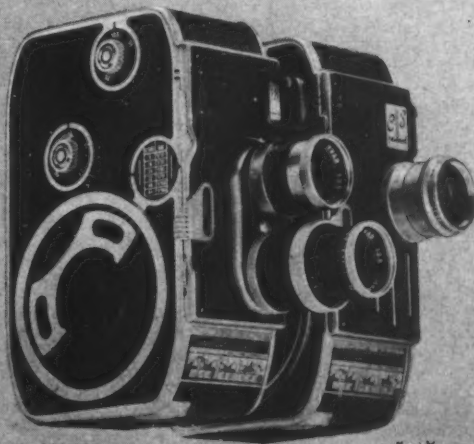
Versatility for the pro! Ease for the beginner! Precision-made in Switzerland, Bolex gives you more features for easy, professional-looking movies than any other 8mm camera. Look at some of these Bolex 8mm extras.

- zoom-type viewfinder
- seven different filming speeds
- cable release as standard equipment for single frame filming
- geared footage indicator
- governor controlled motor
- Kern-Pailard lenses with standard "D" mount for lens interchangeability

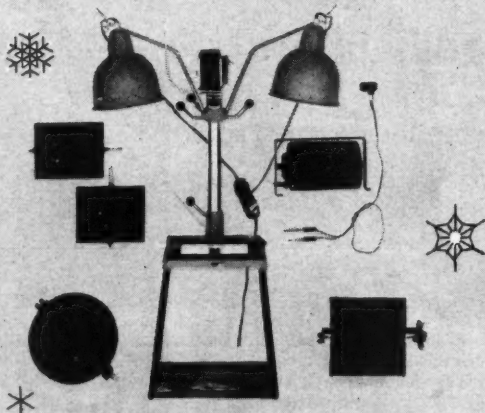
\$89⁹⁵

BOLEX C-8 with Lytar 1/2" F:2.5 FF lens, only

BOLEX B-8, twin-turret camera, with Yvar 1/2" F:2.5 FF lens only \$119.50



Other Bolex 8mm and 16mm Equipment. Bolex also offers a complete line of superb precision-crafted accessories for the 8 and 16mm movie maker. Some of these are illustrated below. In addition, your Bolex dealer has many other items such as the Bolex Tripod, Iris Vignetter and the Bolex Film Splicer—all of the highest Bolex-Swiss quality.



NEW BOLEX 8mm TITLER. Precision-made in Switzerland—the first professional-like titler for 8mm filming! Only \$99.00 complete. Basic equipment (platform, supporting stand with camera holder and unique new title centering device) sold as separate unit for \$37.50. Accessory kit for \$61.50 includes:

- Vertical and Horizontal Flip Flaps
- Scroll Title Device
- Spinning Effects Disc
- Drum
- Extension Legs
- Lights

There's more

Christmas

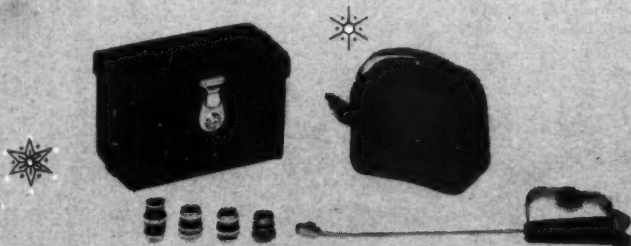
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M-8 Projector. Exclusive Bolex patented "FilmGuard" protects your irreplaceable films from damage. Swiss features include new advanced condenser system for brightest illumination, simple controls, quick "snap" threading, quick 20-second lamp replacement and smooth, quiet drive. Complete with de luxe Eveready case, \$169.50.

Sound Synchomat. New easy way to synchronize words and music with 8mm films! Synchronizes your Bolex M-8 projector with any horizontal tape recorder. Even enables you to add commentary and music to your old movies. Simple, easy to set up to keep scene and sound in perfect synchronization. Synchomat and carrying case, \$89.50.



Lenses by Kern-Pallard—finest in the world, specifically match Bolex cameras. For 8mm cameras: *Telephoto*, 1½" Yvar F:2.8, \$52.50. *Wide Angle*, Pizar 5.5mm F:2.0, \$79.50. *Filmin*, four filters built into lens: Daylight, Sky-light, Yellow and Red, ½", F:2.8, \$54.05. (All lenses with standard "D" mount and filter thread.) For 16mm cameras: *Telephoto*, 3" Yvar F:2.8, \$69.50. *Wide Angle*, 10mm, Switar F:1.6, \$149.50. *Normal*, 1" Switar F:1.4, \$169.00. (All lenses with standard "C" mount.) See these and the other Kern-Pallard lenses at your Bolex dealer's.

Bolex Camera Cases—each made of genuine leather for perfect camera protection. For 8mm cameras: *Compartment Case* of hard leather, \$19.50. *Twinzip case* with two compartments, only \$11.50. Not illustrated are a wide variety of cases for all Bolex 16mm cameras, starting as low as \$32.50.

Sure Fire Grip—insures a firm, steady grip while operating camera. Can be used with all Bolex 8 and 16mm cameras. Only \$14.95.



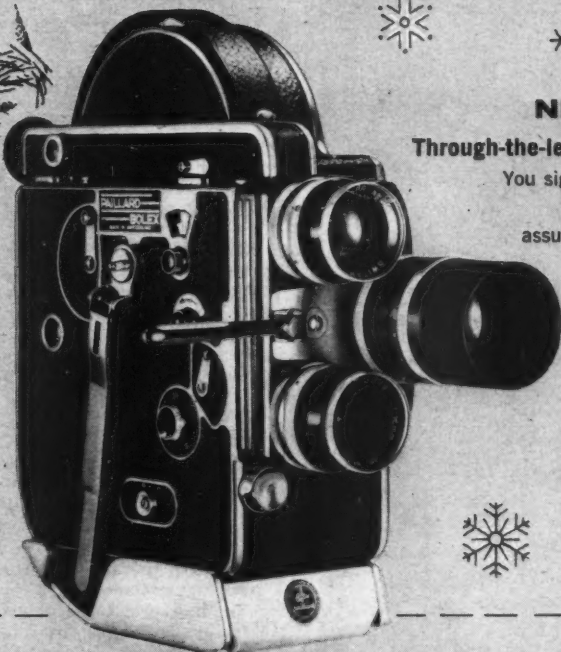
Pan Cinor 70 & 100 lenses—enable you to zoom from close-up and wide angle to telephoto and back without moving the camera or stopping the film. Image in through-the-lens viewfinder is always brilliant regardless of diaphragm setting. Price of Pan Cinor-70 with F:2.4 lens and focal distances from 17.5 to 70mm is just \$369.50. Pan Cinor-100 with F:3.4 lens and focal distances of 25 to 100mm, including case is \$439.50.



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Through-the-lens viewing and focusing while shooting!

You sight...focus...and shoot, all through the same lens. Your eye sees exactly what your lens sees, assures precise, professional framing. Parallax error gone forever. Focusing is built in; no more guesswork or tape measures. It's simple, foolproof at any range! And there's no flicker to disturb your vision at any time, even though you sight right through shooting lens. All the precision extras of the Bolex H-16 cameras plus modern reflex viewing! The world's easiest, most advanced 16mm movie camera, priced as low as

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Bolex Leader features —

- pin-point film registration with exclusive "registrator claw"
- exclusive autoloading
- full film rewind
- single-frame counter
- speeds from 8 to 64 frames per second
- critical focuser
- parallax corrected trifocal viewfinder
- three-lens turret

The Bolex H-16 Leader **\$269⁵⁰**
with F:1.9 Lytar Lens is only

Write to Dept. D-57 for the name of your nearest Bolex dealer and information about the Bolex Reporter magazine.

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AQ21

AIREQUIPT MFG. CO., INC., 20 Jones Street, New Rochelle, N. Y.

35MM

(Continued from page 52)

The simple, moderately priced stainless steel wire developing frames shown in these pictures are made by Kindermann & Co. of Ochsenfurt/Main, West Germany. I found them tucked away in a corner of the vast Washington, D. C., Armory at the IPEX show last March in the booth of Voss Photo Corp., New York, importer of the Kindermann line.

Please don't get the idea that I consider these frames a "final" answer to all inspection development problems—far from it. But, if you like to inspection-develop 35mm films they'll make the inspecting somewhat easier.

The frames are meant to fit 8 x 10 tanks. That means using a large quantity of developer and other solutions to fill the tank. The one shown is a narrow Leedal of stainless steel which holds 3 qts. However, handymen should be able to make quite good, narrower tanks from tempered Masonite or other materials, well coated with liquid plastic or rubber paint to make it impermeable.

My first thought was that the frames would go nicely in ordinary trays. Not so—the tops are just a trifle too big for standard 8 x 10 trays, and the 11 x 14 trays need nearly a gallon of solution to fill them. Here again it's easy to make simple, tailor-fitted Masonite trays to take the frames.

Abrasion is something to watch out for. You can scratch the emulsion when the frames go into or out of tanks and trays. I fitted some stoppers over the ends of the frame to act as spacers. In trays these raise the whole business off the bottom; in tanks they prevent rubbing against the sides. Corks should be well coated to avoid soaking up solutions.

Films tend to take a slight "set" due to the bending over the frame. This is easily avoided: don't pull the film tight on the frame—just tight enough so it won't slide around; hang films up to dry with a well weighted clip on the bottom.

In addition to the frame shown there's also one with plastic rollers at each point where the film goes around the frame. This means a less sharp bend and eases the kinking problem. Also, there are frames for 120 roll film.

The frames are not yet generally available, but I've made special arrangements to take care of MODERN's readers. If you want more information about where to buy, price, etc., just send me a postcard (not a letter, please, but a card) c/o MODERN PHOTOGRAPHY, 33 West 60 St., New York 23, N. Y., and ask for developing frames information.—THE END





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Shown above

(left) STROBOLAR 62-A.

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(less batteries)

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Y.

PHY



CAMERA BUYING GUIDE

260 CAMERAS—from brand-new models to grand old-timers which are still familiar around the used camera market—divided into four categories for easy reference: 35mm (all types); reflex ($2\frac{1}{4} \times 2\frac{1}{4}$ and smaller sizes); folding roll film; miscellaneous cameras (including press-type and large reflexes) . . .

IDENTIFICATION POINTS—dates of manufacture, serial numbers, shutter speeds, lenses—special features which distinguish one model from another. . .

PRICES—new and latest used selling prices for all models, where available. . .

FLASH SYNC—if a camera has it, what type; if it's a non-sync camera, whether or not you should add sync; what type of sync to add; what it costs. . .

EDITOR'S NOTE—the material in this new edition of the Camera Buying Guide is the most authoritative single reference for camera buyers ever published. Most of the information is not publicly available anywhere else. The Guide has been compiled by N. M. Grossman, Managing Editor of the Photo Dealer Directory. Valuable flash sync facts were supplied by A. C. Muller, camera repairman.

35MM CAMERAS, ALL TYPES

THE HANDY LITTLE 35, compact and versatile, has grown to enormous popularity in recent years. Such features as a wide range of shutter speeds and fast, well-corrected lenses, even in less expensive models, have contributed to the acceptance of the 35 by amateur and professional alike. New combinations of fast film (particularly in color) and fast lenses have made it possible to shoot under even the most adverse lighting conditions. Today's fine grain films let you make enlargements of startling clarity from 35mm negatives. As new, improved models are offered with more and more built-in and automatic features (this year, the built-in exposure meter was widely introduced), an ever growing number of fine, older models are available on the used camera market.

ALPA

Manufacturer: Pignons S.A., Bal-laigues, Switzerland.

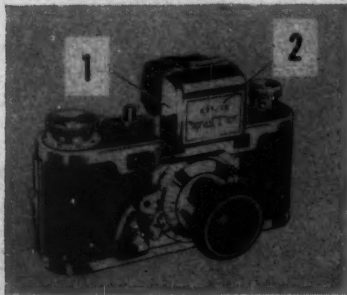
Importer: Karl Heitz, Inc., 480 Lexington Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

Lens: All models incorporate bayonet lens mount for interchangeability of lenses. Standard lenses are factory coated, with click-stop diaphragms. For Alpa Reflex and Alpa Prisma Reflex: 50mm, f/2.8 Alpa Alfinon; 50mm, f/1.8 Angenieux Alitar; or 50mm, f/1.9 Schneider Xenon. For Alpa 4, 5, and 7: 50mm, f/3.5 Alpa Alorar; 50mm, f/2.8 Alpa Alfinon; 50mm, f/1.9 Schneider Xenon; 50mm, f/1.8 Kern Switar Apochromat; or 40mm, f/3.5 Alpa Makro-Kilar. Latest lenses have preset or automatic diaphragm. For the Alpa Reflex and Alpa Prisma Reflex, the importer supplied accessory lenses in focal lengths from 35mm to 300mm; for the Alpa 4, 5, and 7, lenses from 28mm to 3750mm are available.

Shutter: All models have focal-plane shutter with speeds from 1 to 1/1000 sec., plus B and T. Alpa 6 and 7 have self-timer.

ALPA REFLEX



Introduced: 1947 **Discontinued:** 1952
Flash Sync: Factory installed. For FP type bulbs.

Special Features: Single-lens reflex focusing, plus split-image type rangefinder which couples to the 50mm lenses; double exposure prevention; removable back.

Last List Price: With 50mm, f/2.8 Alfinon, \$259; with 50mm, f/1.8 Alitar or 50mm, f/1.9 Xenon, \$357

Last Reported Used Selling Price Range in 1957: With f/2.8 Alfinon, \$104-\$119

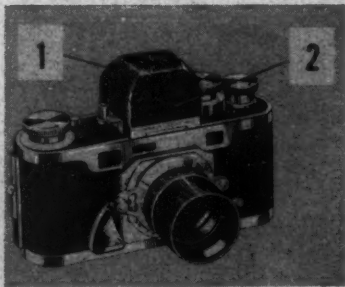
Special Identification Points: 1. Collapsible focusing hood instead of fixed focusing assembly as in Prisma Reflex and Alpa 4, 5, 6, and 7; 2. "Alpa Reflex" engraved on front of focusing hood.

ALPA PRISMA REFLEX

Introduced: 1950 **Discontinued:** 1952

Flash Sync: Same as Alpa Reflex.

Special Features: Built-in roof prism providing unreversed ground glass image. Other features same as Alpa Reflex.



Last List Price: With 50mm, f/2.8 Alfinon, \$329; with 50mm, f/1.8 Alitar or 50mm, f/1.9 Xenon, \$427

Last Reported Used Selling Price Range in 1957: With f/2.8 Alfinon, \$180-\$195

Special Identification Points: 1. Built-in roof prism; 2. "Alpa Prisma Reflex" engraved on front of roof prism.

ALPA MODEL 4

Introduced: 1952 (Currently in production)

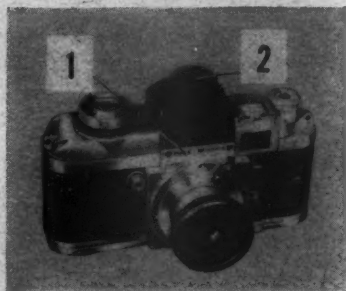
Flash Sync: Factory installed. For FP

type bulbs at all speeds; X sync up to 1/50 sec.

Special Features: Single-lens reflex focusing; single knob winds shutter and advances film in half turn; double exposure prevention; reflex mirror returns to viewing position immediately after exposure; accessory clip; removable back.

Last List Price: With 50mm, f/3.5 Alpa Alorar, \$199; with 50mm, f/2.8 Alpa Alfinon preset, \$249; with 40mm, f/3.5 Alpa Makro-Kilar E, \$259; with 50mm, f/1.9 Xenon automatic diaphragm, \$329; with 50mm, f/1.9 Xenon preset, \$269; with 50mm, f/1.8 Kern Switar Apochromat automatic diaphragm, \$359

Last Reported Used Selling Price Range in 1957: With f/2.8 Alfinon, \$142-\$160



Special Identification Points: 1. "Mod. 4" engraved on housing above lens; 2. Differentiated from Alpa 5, 6, and 7 by having reversed ground glass image; 3. No rangefinder.

ALPA MODEL 5

Introduced: 1952 (Currently in production)

Flash Sync: Same as Alpa 4.

Special Features: Built-in prism providing unreversed ground glass image; 45-degree viewing angle. Other features same as Alpa 4.

Last List Price: With 50mm, f/3.5 Alpa Alorar, \$279; with 50mm, f/2.8 Alpa Alfinon preset, \$319; with 40mm, f/3.5 Alpa Makro-Kilar E, \$329; with 50mm, f/1.9 Xenon automatic diaphragm, \$399; with 50mm, f/1.9 Xenon preset, \$339; with 50mm, f/1.8 Kern Switar Apochromat automatic diaphragm, \$429

Last Reported Used Selling Price Range in 1957: With f/1.9 Xenon (auto.), \$240-\$260

Special Identification Points: 1. "Mod. 5" engraved on housing, above lens; 2. Differentiated from Alpa 4 by having built-in prism; 3. Differentiated from Alpa 6 and 7 by not having self-timer or rangefinder.

ALPA MODEL 6

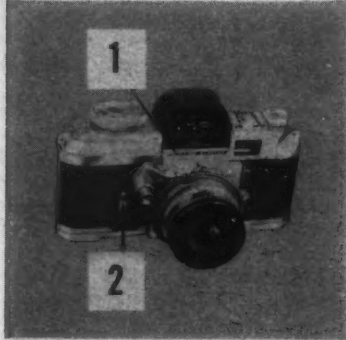
Introduced: 1957 (Currently in production)

Flash Sync: Same as Alpa 4.

Special Features: Split-image prism rangefinder built into ground glass, coupling to all of camera's lenses; built-in self-timer. Other features same as Alpha 5.

Last List Price: Same as Alpha 7 (see Alpha 7 list prices, below).

Last Reported Used Selling Price Range in 1957: Not available.



Special Identification Points: 1. "Mod. 6" engraved on housing, above lens; 2. Self-timer; 3. Split-image prism rangefinder, built into ground glass.

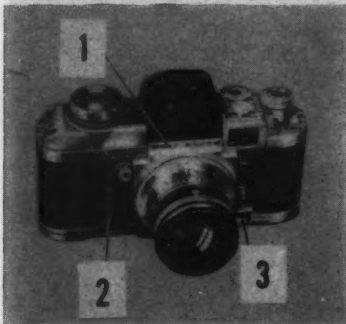
ALPHA MODEL 7

Introduced: 1952 (Currently in production)

Flash Sync: Same as Alpha 4.

Special Features: Separate, built-in coincidence type rangefinder which couples to the 50mm lenses; multi-focal viewfinder for 50, 90, and 135mm lenses; built-in self-timer. Other features same as Alpha 5.

Last List Price: With 50mm, f/3.5



Alpa Alorar, \$319; with 50mm, f/2.8

Alpa Alfinon preset, \$359; with

40mm, f/3.5 Alpa Makro-Kilar E,

\$369; with 50mm, f/1.9 Xenon auto-

matic diaphragm, \$439; with 50mm,

f/1.9 Xenon preset, \$379; with

50mm, f/1.8 Kern Switar Apochro-

mat automatic diaphragm, \$469

Last Reported Used Selling Price Range in 1957: With f/1.8 Switar, \$270-\$299

Special Identification Points: 1. "Mod. 7" engraved on housing, above lens; 2. Self-timer; 3. Separate, coincidence type rangefinder; 4. Multi-focal viewfinder.

ANSCO

Manufacturer: Ansco, 40 Charles St., Binghamton, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

ANSCO KAROMAT f/2

Introduced: 1951 **Discontinued:** 1955

Lens: Factory coated 50mm, f/2. Until 1952, came with either Rodenstock Heligon or Schneider Xenon; thereafter, came only with Xenon.

Shutter: Synchro-Compur, 1 to 1/500 sec. Until 1952, shutter had both B & T; thereafter, came with B setting only.

Flash Sync: Factory installed, M and X.

Special Features: Coupled split-image type rangefinder; combined window for view and rangefinder; rapid



film advance lever automatically cocks shutter; double exposure prevention; built-in depth of field scale in last version only (first version had none; second version had calculator instead of scale); film-type indicator dial (in second and last versions only); zone focusing setting; body shutter release; built-in accessory shoe.

Last List Price: \$125

Last Reported Used Selling Price Range in 1957: With f/2 Xenon, \$69-\$80

Special Identification Points: 1. Heligon or Xenon f/2 lens; 2. First

version had hinged film advance lever; second and last versions had round lever; 3. Built-in depth of field scale in last version only; 4. Until 1952, had bar in front for Time shutter setting; thereafter, came without Time setting.

ANSCO KAROMAT f/2.8

Introduced: 1953 **Discontinued:** 1956

Lens: Factory coated 50mm, f/2.8 Schneider Xenar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Same as Karomat f/2.

Special Features: Same as last version of Karomat f/2.

Last List Price: \$112.50

Last Reported Used Selling Price in Range in 1957: \$48-\$60

Special Identification Points: 1. Xenar f/2.8 lens.

ANSCO MEMAR

Introduced: 1954 (Currently in production)

Lens: Factory coated 45mm, f/3.5 Agfa Apotar.

Shutter: Pronto, 1/25 to 1/200 sec., plus B and self-timer.

Flash Sync: Factory installed. X at 1/25 sec. or open flash.

Special Features: Film transport coupled with shutter cocking; rapid film advance lever; double exposure prevention; zone focusing settings; built-in depth of field scale; film-type indicator; accessory shoe.

Last List Price: \$41.50



Last Reported Used Selling Price Range in 1957: \$23-\$34

HOW THE CAMERAS WERE CHOSEN

OF COURSE, the new and used cameras which make up MODERN's Buying Guide do not include everything that is, or ever was, on the market. We have purposely excluded out-of-production cameras which are no longer generally available—and also very low-priced cameras. All the cameras listed have lenses of good quality, dependable shutters, and other features which make them versatile picture-taking instruments. Here are most of the famous names in cameras currently in production, together with those older models still prominent on the used camera market.

Although this list is as correct and up to date as careful checking and research could make it, MODERN assumes no responsibility for its accuracy.

Special Identification Points: 1. Pronto, instead of Prontor SVS or Synchro-Compur shutter as in Super Memar; 2. No rangefinder.

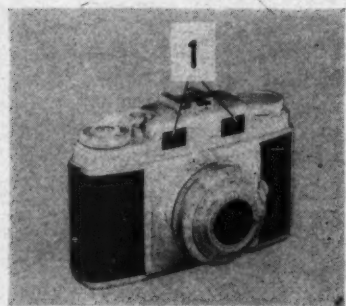
ANSCO SUPER MEMAR (1955 Version)

Introduced: 1955 **Discontinued:** 1956
Lens: Factory coated 45mm, f/3.5 Agfa Apotar or 50mm, f/2 Solagon (introduced in 1956).

Shutter: Model with f/3.5 Apotar has Prontor SVS, 1 to 1/300 sec., plus B and self-timer; f/2 version comes with Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M and X.

Special Features: Coupled rangefinder with combined range- and viewfinder eyepiece. Other features same as Memar.



Last List Price: With 45mm, f/3.5 Apotar, \$69.50; with 50mm, f/2 Solagon, \$124.50

Last Reported Used Selling Price Range in 1957: With f/3.5 Apotar, \$39-\$51

Special Identification Points: 1. Coupled rangefinder; 2. Differentiated from 1956 version by not having LVS shutter.

ANSCO SUPER MEMAR LVS

Note: This camera is similar to the 1955 version, but has Light Value Scale cross-coupled to lens diaphragm.

Introduced: 1956 (Currently in production)

Last List Price: With 45mm, f/3.5 Apotar, \$74.50; with 50mm, f/2 Solagon, \$124.50

Last Reported Used Selling Price Range in 1957: Not available.

ANSCO REGENT

Introduced: 1953 **Discontinued:** 1956
Lens: Factory coated 50mm, f/3.5.

Early version has Agfa Apotar; later version has Agfa Solinar.

Shutter: Early version has Prontor SV, 1 to 1/300 sec., plus B and self-timer; later version has Prontor SVS, with same speeds.

Flash Sync: Factory installed, M and X.

Special Features: Double exposure

prevention; built-in depth of field scale; zone focusing setting; film type indicator; accessory clip; body shutter release.

Last List Price: \$54.50

Last Reported Used Selling Price Range in 1957: \$29-\$38

Special Identification Points: 1. Early version comes with Apotar lens;



later version comes with Solinar; 2. Prontor shutter with speeds up to only 1/300 sec.; 3. No rangefinder.

ANSCO SUPER REGENT

Introduced: 1954 **Discontinued:** 1955
Lens: Factory coated 50mm, f/3.5 Agfa Solinar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Coupled coincidence type rangefinder with combined range- and viewfinder eyepiece. Other features same as Regent.

Last List Price: \$87.50

Last Reported Used Selling Price Range in 1957: \$45-\$56

Special Identification Points: 1. Coupled rangefinder; 2. Differentiated from later Super Regent LVS by not having Light Value Scale.

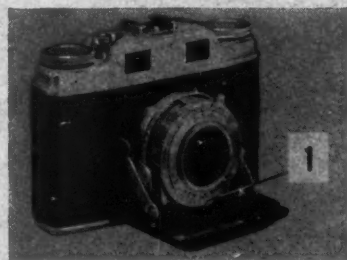
ANSCO SUPER REGENT LVS

Note: This camera is the same as the earlier Super Regent, but has a shutter incorporating a Light Value Scale cross-coupled to the lens diaphragm, and click stops on the diaphragm and shutter speed rings.

Introduced: 1955 (Currently in production)

Last List Price: \$89.50

Last Reported Used Selling Price Range in 1957: \$37-\$50



Special Identification Points: 1. Light Value Scale.

ARGUS

Manufacturer: Argus Cameras, Division of Sylvania Electric Products, Inc., 405 Fourth St., Ann Arbor, Mich.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

ARGUS MODEL C

Introduced: 1938 **Discontinued:** 1939
Lens: 50mm, f/3.5 anastigmat.

Shutter: Behind-the-lens, 1/5 to 1/300 sec., plus B.

Flash Sync: None. Add type I (X sync). See page 65.

Special Features: Built-in rangefinder (not coupled to focusing mount); body shutter release.

Last List Price: \$25

Last Reported Used Selling Price Range in 1957: \$11-\$18

Serial Numbers: 1,000 to 19,077

Special Identification Points: 1. Only C series Argus with uncoupled rangefinder; 2. Box shape, with squared-off edges.

ARGUS MODEL C2

Introduced: 1938 **Discontinued:** 1942
Lens: 50mm, f/3.5 anastigmat.

Shutter: Behind-the-lens, 1/5 to 1/300 sec., plus B.

Flash Sync: None. Add type I (X sync). See page 65.

Special Features: Coupled rangefinder; other features same as Model C.

Last List Price: \$39.75

Last Reported Used Selling Price Range in 1957: \$12-\$22

Serial Numbers: 19,077 to 91,945

Special Identification Points: 1. Coupled rangefinder; 2. Box shape, with squared-off edges.

ARGUS MODEL C3



Introduced: 1939 (Currently in production)

Lens: 50mm, f/3.5 Cintar. **Note:** Model C3 cameras made after July, 1946 come with coated Cintar lenses.

Shutter: Behind-the-lens, 1/10 to 1/300 sec., plus B.

Flash Sync: Factory installed. Most have F at all speeds, M up to 1/30. After Jan., 1954 (serial numbers above 964,482) changed to F up to 1/100, M to 1/25, X at all speeds.

Special Features: Coupled rangefinder; threaded lens mount for interchanging lenses; body shutter release; color-coded exposure and distance settings (in latest model only); accessory shoe (in latest model only).

Last List Price: with case and flash, \$69.50

Last Reported Used Selling Price Range in 1957: With case and flash, \$29-\$40

Serial Numbers: (prewar) 0310001 to 03690326; (current) 10,699 to above 1,650,000

Special Identification Points: 1. First C model with interchangeable lens mount; 2. Factory installed sync; 3. Box shape, with squared-off edges. 4. Current model has accessory shoe on top of camera.

ARGUS MODEL 21



Introduced: 1947 **Discontinued:** 1952
Lens: Factory coated 50mm, f/3.5 Cinar.

Shutter: Behind-the-lens, 1/10 to 1/200 sec., plus B.

Flash Sync: Factory installed, selector for M and F at all speeds.

Special Features: Double exposure prevention; gun-sight type viewfinder; full focusing mount; body shutter release; accessory shoe; removable lens, for use on enlarger.

Last List Price: \$59.50

Last Reported Used Selling Price Range in 1957: \$19-\$29

Serial Numbers: 9,218 to 64,785

Special Identification Points: 1. No built-in rangefinder; 2. Removable f/3.5, instead of permanently mounted f/2.8 lens as in C4.

ARGUS MODEL C4

Introduced: 1951 (Currently in production)

Lens: Coated 50mm, f/2.8 Cinar.

Shutter: Behind-the-lens, 1/10 to 1/300 sec., plus B.

Flash Sync: Factory installed. Early models same as Model 21. After June, 1954 (serial numbers above 321,000) changed to F up to 1/100, M and X at all speeds.

Special Features: Coupled rangefinder; all metal body; double exposure prevention; body shutter release; single eyepiece for viewfinder and

rangefinder; color-coded exposure and distance settings (in latest model only).

Note: The Model C4 can be adapted for interchanging lenses; accessory lenses are available.

Last List Price: \$84.50

Last Reported Used Selling Price Range in 1957: \$47-\$62

Serial Numbers: 230,000 to above 521,000



Special Identification Points: 1. Built-in rangefinder; 2. F/2.8 lens.

ARGUS MODEL C44

Introduced: 1956 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Cintagon.

Shutter: Behind-the-lens, 1/10 to 1/300 sec., plus B.

Flash Sync: Same as late models of C4.

Special Features: Bayonet type lens mount for interchanging lenses (Cintagon 100mm, f/3.5 telephoto, 35mm, f/4.5 wide-angle, and 50mm, f/1.9, accessory lenses available). Other features same as Model C4.



Last List Price: \$99.50

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: 0044000001 to above 0044062500

Special Identification Points: 1. "Argus C-Forty Four" engraved on front of rangefinder dial; 2. Differentiated from Argus C4 by having bayonet type lens mount for interchangeability of lenses.

ARGUS MODEL A-Four

Introduced: 1953 **Discontinued:** 1956

Lens: Coated 44mm, f/3.5 Cinar.

Shutter: Between-the-lens, 1/25 to 1/200 sec., plus B.

Flash Sync: Factory installed. M up to 1/25, F to 1/100, X at all speeds.



Special Features: Double exposure prevention; blank exposure prevention; full focusing mount; built-in depth of field scale; color-coded exposure and distance settings (in latest model only).

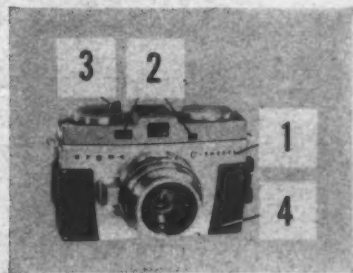
Last List Price: \$32.50

Last Reported Used Selling Price Range in 1957: \$16-\$27

Serial Numbers: None. Bears stamped date of manufacture.

Special Identification Points: 1. "Argus a-four" marked on front of camera body.

ARGUS MODEL C20



Introduced: 1957 (Currently in production)

Lens: Coated 44mm, f/3.5 Cinar.

Shutter: Between-the-lens, 1/25 to 1/200 sec., plus B.

Flash Sync: Factory installed. M at 1/25, F to 1/100, X at all speeds.

Special Features: Coupled rangefinder (separate window for viewfinder); rapid film advance lever; double exposure prevention; body shutter release; color-coded exposure and distance settings.

Last List Price: \$43.50

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: None. Bears stamped date of manufacture.

Special Identification Points: 1. "Argus C-twenty" marked on front of camera body; 2. Coupled rangefinder; 3. Rapid film advance lever; 4. Two-tone brown plastic body.



BOLSEY

Manufacturer: Formerly made by Bolsey Corp. of America, 118 E. 25th St., New York 10, N. Y. Starting 1956, made by Obex Corp. of America, 1 W. 47th St., New York, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

BOLSEY MODEL B

Introduced: 1947 **Discontinued:** 1955
Lens: Factory coated 44mm, f/3.2.

Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: None. Special flashgun had external sync device.

Special Features: Coupled rangefinder; focusing down to 2 ft.

Last List Price: \$58.50

Last Reported Used Selling Price Range in 1957: \$18-\$29



Special Identification Points: 1. "Model B" marked on top of camera; 2. No double exposure prevention.

BOLSEY MODEL B SPECIAL

Introduced: 1950 **Discontinued:** 1954
Lens: Factory coated 44mm, f/3.2.

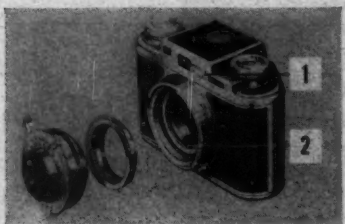
Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B.

Special Features: Removable lens-shutter assembly for insertion of extension rings for close-ups. Other features same as Model B.

Last List Price: \$71.25

Last Reported Used Selling Price Range in 1957: \$38-\$44



Special Identification Points: 1. "Model B Special" marked on front of camera, between view- and rangefinder windows; 2. Only Bolsey model with removable lens-shutter assembly.

BOLSEY MODEL B2



Introduced: 1949 **Discontinued:** 1956
Lens: Factory coated 44mm, f/3.2.

Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/50.

Special Features: Double exposure prevention. Other features same as Model B.

Last List Price: \$58.50

Last Reported Used Selling Price Range in 1957: \$26-\$39

Special Identification Points: 1. "Model B2" marked on front of camera, between view- and rangefinder windows; 2. Permanent, instead of removable, lens-shutter assembly.

BOLSEY MODEL B22

Introduced: 1953 **Discontinued:** 1955
Lens: Factory coated 44mm, f/3.2.



Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B2.

Special Features: Automatic diaphragm computer for flash; provision for deliberate double exposures. Other features same as Model B2.

Last List Price: \$69.50

Last Reported Used Selling Price Range in 1957: \$33-\$45

Special Identification Points: 1. "Model B22 Set-O-Matic" marked on front of camera between view- and rangefinder windows; 2. Automatic diaphragm computer for flash.

BOLSEY JUBILEE

Introduced: 1955 (Currently in production)

Lens: Factory coated 45mm, f/2.8 Bolsey-Steinheil.

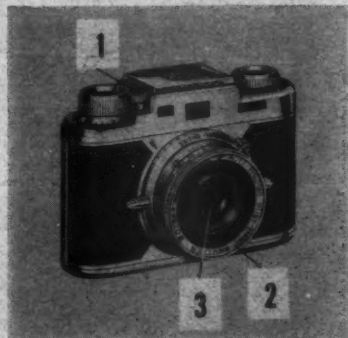
Shutter: Gauthier, 1/10 to 1/200 sec., plus B.

Flash Sync: Factory installed. M and X, at all speeds.

Special Features: Coupled, split-image rangefinder; Set-O-Matic automatic diaphragm computer for flash and daylight; double exposure prevention; body shutter release; quick-focusing knob.

Last List Price: \$69.50

Last Reported Used Selling Price Range in 1957: \$33-\$40



Special Identification Points: 1. Body shutter release.

BOLSEY MODEL B3

Note: This camera is the same as the Bolsey Jubilee, but does not have the "Set-O-Matic" automatic diaphragm flash computer.

Introduced: 1956 (Currently in production)

Last List Price: With ever-ready case, \$59.95

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. "Bolsey B3" engraved on top of camera; 2. No automatic diaphragm flash computer.

BOLSEY EXPLORER



Introduced: 1954 (Currently in production). This camera is made in Germany.

Lens: Factory coated 45mm, f/2.8 Steinheil Cassar.

Shutter: Gauthier, 1/25 to 1/200 sec., plus B.

Flash Sync: Factory installed. M up to 1/50, X at all speeds.

Special Features: Double exposure prevention; rapid-wind lever which transports film, operates exposure counter, and cocks shutter in one motion; body shutter release; optical viewfinder; built-in depth of field scale.

Last List Price: \$47.95 (including case and flashgun).

Last Reported Used Selling Price Range in 1957: \$24-\$33

Special Identification Points: 1. "Bolsey Explorer" marked on lens mount.

BOLSEY MODEL C

Introduced: 1950 Discontinued: 1955
Lens: Factory coated 44mm, f/3.2.

Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B2.

Special Features: Twin-lens reflex focusing plus coupled rangefinder; parallax correction indicator on ground glass finder; built-in magnifier; built-in depth of field scale; film speed indicator built into rewind knob. Other features same as Model B2.

Last List Price: \$89.50



Last Reported Used Selling Price Range in 1957: \$31-\$50

Special Identification Points: 1. "Model C Twin Lens Reflex" marked on front of reflex housing.

BOLSEY MODEL C22

Introduced: 1953 (Currently in production)

Lens: Factory coated 44mm, f/3.2.

Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B22.

Special Features: Automatic diaphragm computer for flash. Other features same as Model C, but has no depth of field scale.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1957: \$54-\$63

Does it pay to buy a non-sync camera and add sync to it?

THE ANSWER TO THAT QUESTION is a definite "Yes," but with a number of important "ifs" which must be satisfied first. These are: if the camera is selling for more than \$50 and is in all other ways excellent for your purposes; if your flash needs are relatively modest; if you can't pick up an equally good camera with factory installed sync for the price of the old camera plus the cost of installing sync; if you or your camera dealer have a reliable repairman capable of doing a good installation.

If your flash needs are complex and demanding, if you must have the versatility of M and X sync at all speeds, then better save your money until you can get a camera with such a flash system factory installed.

Below is a list of various types of sync, plus recommendations and costs. Internal installations described are of the simplest type, using a single switch. If you want a safety switch to prevent accidental flashing (focal-plane shutters only), add about 50 percent to the cost.

Type 1: Internal contact points with zero delay. That is, the electrical circuit is completed at the instant the shutter blades or curtains are wide open. Commonly called "X" sync, this is the easiest type to install in a non-sync shutter. It is most useful in a leaf-type shutter. You can use electronic flash at any speed; at slow shutter speeds (up to about 1/30 sec.) any type of flashbulb may be used. It can be added successfully to all models of the Compur shutter, to most Prontors, and to the better grade Japanese makes. Approximate cost range is \$15 to \$25.

For focal-plane shutters, X sync is desirable if you plan to use electronic flash mainly. If your main concern is with flashbulbs, Types 2 or 4 (below) may be more useful. X sync can be added successfully to practically any 35mm or roll film camera with focal-plane shutter. Approximate cost range is \$18 to \$40.

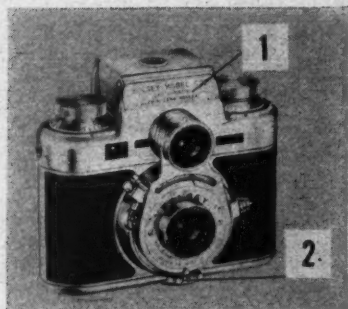
Type 2: Internal contact points with 20-millisecond delay. That is, the circuit is completed .017 to .020 seconds before the shutter blades or curtains are wide open. This type of sync is designed for use only with Class M bulbs and leaf-type shutters, and Class FP bulbs and focal-plane shutters. Unless you have definite reason for sticking exclusively to flashbulbs, it is inadvisable to install this type of sync in a leaf shutter (except in conjunction with X sync). It is, however, quite usable with 35mm focal-plane shutters. Approximate cost range is \$18 to \$40.

Type 3: Internal contact points with 3-millisecond delay. That is, the circuit is completed about .003 seconds before the shutter blades or curtains are wide open. This is for use only with Class F (SM or SF) flashbulbs. It is inadvisable to install such sync, as the Class F bulbs may be used satisfactorily with X sync (Type 1, above).

Type 4: External contact points, operated by movement of a shutter speed setting ring, or similar part of the camera mechanism. These are useful mainly for synchronizing focal-plane shutters. Some types let you use high shutter speeds with FP bulbs; others provide a version of "open flash" for speed light or flashbulbs. Wide range of prices.

Type 5: External solenoid to actuate shutter. These work only with set-and-release shutters, preferably of the leaf type, and are for use only with flashbulbs, generally Class M. This type of sync is virtually obsolete today, and it is inadvisable to install it on a camera (except for some press types) unless there is compelling reason to do so.

Type 6: Mechanical devices which screw into the cable release socket. These are of three kinds: (1) So-called "passive" synchronizers actuated by the shutter, after it is tripped. These are inexpensive and may be useful with an old self-cocking shutter for an occasional flash. (2) Cable release incorporating a mechanical time delay. (3) Cable release actuated by solenoid. All three systems are of relatively limited utility.



Special Identification Points: 1. "Model C22 Set-O-Matic Twin Lens Reflex" marked on front of reflex housing; 2. Set-O-Matic automatic diaphragm computer for flash.

CANON

Manufacturer: Canon Camera Co., Inc., Tokyo, Japan

Importer: Canon Camera Co., Inc., 550 Fifth Ave., New York 36, N. Y. The listing below covers only those models brought in by the importers. Earlier models brought in through other channels may still be in circulation.

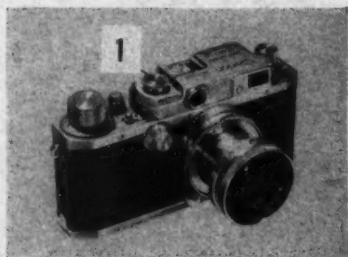
Film size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films. They also accept special Canon cassettes for loading bulk film.

Lens: All models described below incorporate threaded lens mount (similar to Leica mount) for interchangeability of lenses. Standard lenses on older models were factory coated 50mm, f/3.5, f/2, or f/1.9 Serenar. Standard lenses on current models are factory coated 50mm, f/3.5, f/1.8, f/1.5 or f/1.2 Canon. Accessory lenses are available in focal lengths from 28 to 800mm.

Flash Sync: Either Type 1 (X sync), or Type 2 (with FP bulbs) can be added to any non-sync Canon. See page 65 for details.

Shutter: All models have cloth focal-plane shutter.

CANON MODEL II-B



Introduced: 1948 **Discontinued:** 1950
Shutter Speeds: 1 to 1/500 sec., plus B.
Flash Sync: None. See note above.

Special Features: Coupled coincidence type rangefinder; single eyepiece for range-viewfinder, with three degrees of magnification; film transport coupled to shutter winding; automatic exposure counter; body shutter release; accessory shoe; built-in depth of field scale.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/1.9 Serenar, \$106-\$134

Special Identification Points: 1. Top shutter speed of only 1/500 sec.

CANON MODEL III

Note: This model is the same as Model II-B, but has top shutter speed of 1/1000 sec., plus B and T.

Introduced: 1950 **Discontinued:** 1952

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Top shutter speed of 1/1000 sec., instead of only 1/500 as in Model II-B; 2. No factory installed sync.

CANON MODEL IV

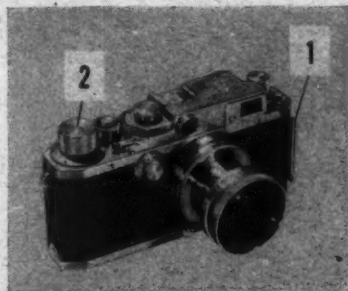
Note: This model is the same as Model III, except for flash sync.

Introduced: 1950 **Discontinued:** 1952

Flash Sync: Factory installed, for FP bulbs at 1/100 and faster. Also for Class M bulbs with special Canon flashgun and timing unit.

Last List Price: Not available

Last Reported Used Selling Price Range in 1957: With f/1.8 Serenar, \$124-\$139

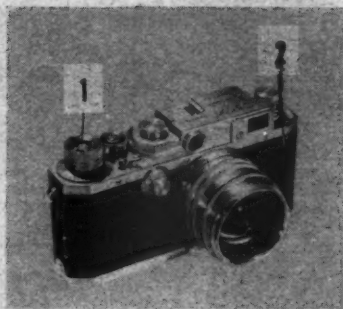


Special Identification Points: 1. Rail on side of camera for attaching flash unit; 2. Film winding knob lacks film-type indicator.

CANON MODEL III-A

Note: This model is similar to Model IV, except for flash sync. A film-speed indicator is built into the film-winding knob. Standard lens is 50mm, f/3.5 Serenar, or 50mm f/1.8 Serenar (in rigid mount, with click stops).

Introduced: 1952 **Discontinued:** 1953
Flash Sync: None. See note, beginning of Canon section.



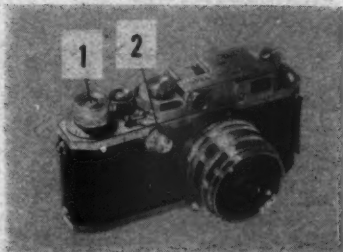
Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available

Special Identification Points: 1. Film-speed indicator; 2. No factory installed sync connection.

CANON MODEL IV-S

Note: This model is the same as Model IV, but has a film-speed indicator built into the film-winding knob.



Standard lens is 50mm, f/3.5 Serenar, or 50mm, f/1.8 Serenar (in rigid mount with click stops).

Note: This camera was introduced briefly in the United States in 1952. Manufacture of the IV-S in Japan was discontinued in 1951.

Flash Sync: Factory installed. Same as Model IV. Does not have X sync, as in later Model IV-S2.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/1.8 Serenar, \$126-\$148

Special Identification Points: 1. Differentiated from Canon IV by having built-in film-type indicator; 2. No lock on slow speed dial.

CANON MODEL IV-S2

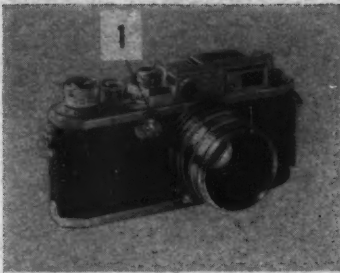
Note: This model is the same as Model IV-S, except for flash sync and lock for the slow speed dial.

Introduced: 1952 **Discontinued:** 1956

Flash Sync: Factory installed. For FP type bulbs at 1/100 and faster. Also M bulbs with special Canon flashgun and timing unit. X sync at slow speeds.

Last List Price: With 50mm, f/1.8 Canon, \$284; with 50mm, f/1.5 Canon, \$327

Last Reported Used Selling Price



Range in 1957: With f/1.8 Canon, \$129-\$163; with f/3.5 Canon, \$115-\$140

Special Identification Points: 1. Lock on slow speed dial.

CANON MODEL II-D

Note: This model is similar to Model III-A, but has top shutter speed of only 1/500 sec., instead of 1/1000. Introduced: 1952 (Currently in production)

Flash Sync: None. See note, beginning of Canon section.

Last List Price: With 50mm, f/3.5 Canon, \$166; with 50mm, f/1.8 Canon, \$230; with 50mm, f/1.5 Canon, \$277

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Top shutter speed of only 1/500 sec.; 2. Built-in film-speed indicator.

CANON MODEL II-F

Note: This model is similar to Model IV-S2, except for flash sync and top shutter speed of only 1/500, instead of 1/1000.

Introduced: 1954 Discontinued: 1955

Flash Sync: Factory installed. For FP bulbs at 1/100 and faster shutter speeds. No X sync.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Top shutter speed of only 1/500 sec., instead of 1/1000 as in Model IV-S2.

CANON MODEL II-S

Note: This model is the same as Model IV-S2 in both quality and function except the model II-S has shutter speeds up to 1/500 sec. only.

Introduced: 1954 Discontinued: 1956 Flash Sync: Factory installed. Same as Model IV-S2.

Last List Price: With 50mm, f/1.8 Canon, \$264

Last Reported Used Selling Price Range in 1957: Not available.

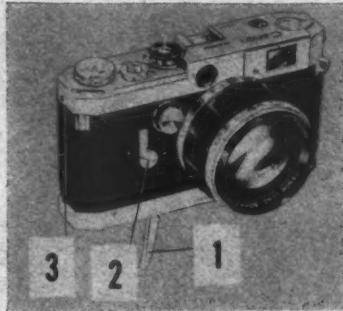
Special Identification Points: 1. Top shutter speed of only 1/500 sec., instead of 1/1000 as in Model IV-S2; 2. Factory installed sync for high and slow speeds; 3. Additional X-type sync; 4. Film-speed indicator.

CANON MODEL V

Introduced: 1956 (Currently available) Shutter Speeds: 1 to 1/1000 sec., plus B and T, and self-timer.

Flash Sync: Factory installed. For FP type bulbs at all speeds; M type bulbs, 1/125 to 1 sec.; F type bulbs, 1/30 to 1 sec.; X sync up to 1/50 sec.

Special Features: Coupled coincidence type rangefinder with single eyepiece for range-viewfinder; view-



finder adjustments for 35mm and 50mm lenses, as well as critical magnification; accessory shoe, synchronized with rangefinder, provides automatic parallax correction for all accessory viewfinders; fixed take-up spool; hinged back; rapid film-advance trigger, as well as manual film winding knob with built-in film-type indicator; double exposure prevention; shutter release guard also acts as setting for intentional double exposures and film advance-rewind.

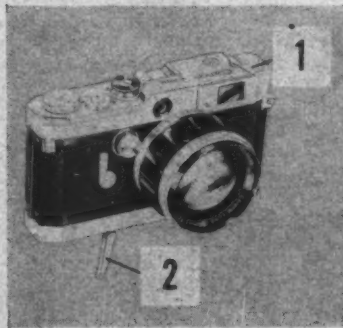
Last List Price: With 35mm, f/1.8 Canon, \$358; with 50mm, f/1.8 Canon, \$323; with 50mm, f/1.2 Canon, \$448

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Rapid film advance trigger; 2. Self-timer; 3. Hinged back; 4. No folding rewind lever.

CANON MODEL V_t DELUXE

Note: This model similar to Model V, but has folding rewind lever.



Introduced: 1957 (Currently in production)

Last List Price: With Canon 50mm

lens: f/2.8, \$277; f/1.8, \$333; f/1.2, \$458. With 35mm, f/1.8 Canon lens, \$367

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Folding rewind lever; 2. Rapid film advance trigger located on base of camera.

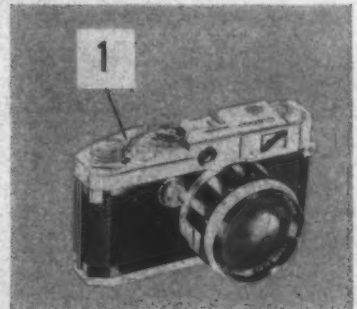
CANON MODEL L-1

Note: This model is similar to the Model V_t Deluxe, except for the following differences: Rapid film advance lever located on top of camera, replacing film advance knob and base plate trigger; no self-timer; lock for hinged back located on base plate.

Introduced: 1957 (Currently in production)

Last List Price: With Canon 50mm lens: f/2.8, \$259; f/1.8, \$315; f/1.2, \$440. With 35mm, f/1.8 Canon lens, \$350

Last Reported Used Selling Price Range in 1957: Not available.



Special Identification Points: 1. Rapid film advance lever located on top of camera; 2. Lock for hinged back located on base plate; 3. No self-timer.

CIRO 35

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y.

Note: This camera was originally manufactured by Ciro Cameras, Inc. Film: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

CIRO 35 MODEL S

Introduced: 1949 Discontinued: 1954

Lens: Factory coated. Camera originally supplied with 50mm, f/3.5 Wollensak; later came with 50mm, f/3.5 Graflex Graftar.

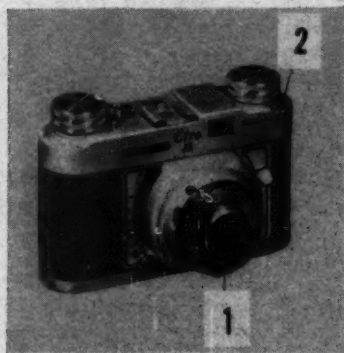
Shutter: Camera originally supplied with Alphax, 1/10 to 1/200 sec., plus B & T; later came with Century, with same speeds.

Flash sync: Factory installed. F type bulbs at all speeds, M type bulbs up to 1/25 sec.

Special Features: Split-image type coupled rangefinder; optical type viewfinder; accessory shoe; body shutter release.

Last List Price: \$49.95

Last Reported Used Selling Price Range in 1957: With f/3.5 Wollensak, and Alphas shutter, \$22-\$32



Special Identification Points: 1. Only Ciro 35 model with f/3.5 lens; 2. Early version has all-black finish; version supplied after 1952 has satin chrome finish.

CIRO 35 MODEL R

Note: This camera is the same as Model S, but has 50mm, f/4.5 Wollensak lens in Alphas shutter, 1/25 to 1/150 sec., plus B & T.

Introduced: 1949 **Discontinued:** 1953

Flash Sync: Same as Model S.

Last List Price: \$44.15

Last Reported Used Selling Price Range in 1957: \$20-\$27

Special Identification Points: 1. Came only in all-black finish; 2. Only Ciro 35 model with f/4.5 lens.

CIRO 35 MODEL T

Note: This camera is the same as Model S, but has 50mm, f/2.8 Wollensak lens in Rapax shutter, 1/2 to 1/400 sec., plus B & T.

Introduced: 1951 **Discontinued:** 1953

Flash Sync: Same as Model S.

Last List Price: \$89.50

Last Reported Used Selling Price Range in 1957: \$33-\$52

Special Identification Points: 1. Only Ciro 35 model with f/2.8 lens.

CONTAFLEX

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1 1/2 in.) pictures using standard cartridge films. They also accept Contax cassettes.

CONTAFLEX TWIN-LENS REFLEX

Introduced: 1935 **Discontinued:** 1940

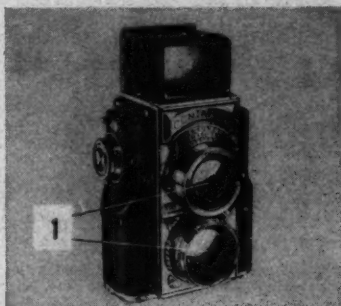
Lens: Interchangeable, by means of

bayonet lens mount. Standard lenses were 50mm, f/2 or f/1.5 Sonnar, or 50mm, f/2.8 Tessar. Focal lengths from 35 to 135mm were available. Viewing lens was 80mm, f/2.8.

Shutter: Metal focal-plane, 1/2 to 1/1000 sec., plus B and self-timer.

Flash Sync: None. Add type 1 (X sync) or 2 (with FP bulbs). See page 65.

Special Features: Built-in photoelectric exposure meter; built-in magnifier for ground glass image; Albada sports finder; coupled film transport and shutter cocking; built-in depth of field scale; automatic exposure counter.



Last List Price: With f/2 Sonnar, \$309; with f/1.5 Sonnar, \$399; with f/2.8 Tessar, \$267

Last Reported Used Selling Price Range in 1957: With f/2 Sonnar, \$90-\$116

Special Identification Points: 1. Only Zeiss 35mm twin-lens reflex camera.

CONTAFLEX I

Note: The post-war Contaflex is of entirely different design from the pre-war camera of the same name. The current camera is an eye-level focusing single-lens reflex.



Introduced: 1953 (Currently in production)

Lens: Factory coated 45mm, f/2.8 Tessar incorporating automatic preset diaphragm.

Shutter: Until June, 1954, came with Synchro-Compur, with speeds of 1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, 1/250, 1/500 sec., plus B; latest version comes with Synchro-Compur MXV, with speeds of 1, 1/2, 1/4, 1/6, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Eye-level roof-prism reflex focusing in combination with split-image rangefinder; film transport coupled to shutter winding, preset diaphragm, exposure counter, reflex mirror and film-protecting light trap; built-in depth of field scale; film-type indicator; setting for optional fixed focus use; body shutter release; removable back.

Last List Price: \$153

Last Reported Used Selling Price Range in 1957: \$85-\$119

Special Identification Points: 1. No built-in exposure meter.

CONTAFLEX II

Note: This camera is the same as the current Contaflex I, but has a built-in photoelectric exposure meter.

Introduced: December, 1954 (Currently in production)

Flash Sync: Same as Contaflex I.

Last List Price: \$176

Last Reported Used Selling Price Range in 1957: \$100-\$130



Special Identification Points: 1. Built-in exposure meter.

CONTAFLEX III

Note: This camera is similar to current model of Contaflex I, but has the following differences: Front component of standard 50mm, f/2.8 Tessar lens is interchangeable with accessory Pro-Tessar 35mm, f/4 wide-angle and 85mm f/4 telephoto lens components. Shutter is Synchro-Compur, 1 to 1/500 sec., plus B and self-timer, and incorpo-



rates Light Value Scale cross-coupled to lens diaphragm.

Introduced: 1957 (Currently in production)

Last List Price: \$176

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. LVS shutter; 2. Interchangeable front lens component; 3. No built-in exposure meter.

CONTAFLEX IV

Note: This camera is similar to Contaflex III, but has built-in photoelectric exposure meter calibrated in Light Value Scale settings.

Introduced: 1957 (Currently in production)

Last List Price: \$199

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Built-in exposure meter, calibrated in LVS settings; 2. LVS shutter; 3. Interchangeable front lens component.

CONTAX

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films. They also accept bulk load cassettes and daylight loading spools.

Lens: All models incorporate bayonet lens mounts for interchangeability of lenses. Standard lens is 50mm, f/3.5 Tessar or 50mm, f/2 or f/1.5 Sonnar. Focal lengths from 21 to 500mm are available.

Shutter: All models have metal focal-plane shutter.

Flash Sync: Either Type I (X sync) or Type 2 (with FP bulbs) can be added to any non-sync Contax. See page 65 for details.

CONTAX MODEL I

Introduced: 1932 **Discontinued:** 1936
Shutter Speeds: 1/25 to 1/1000 sec., plus B. **Note:** Version introduced in 1934 had speeds down to ½ sec.

Flash Sync: None. See note above.

Special Features: Coupled long-base rangefinder; interchangeable lenses; built-in knurled wheel for focusing 50mm lenses from top of camera; detachable back; accepts plate back and full range of accessories; coupled film transport and shutter cocking (double and blank exposure prevention).

Last List Price: With 50mm, f/3.5 Tessar, \$135; with 50mm, f/2 Sonnar, \$181

Last Reported Used Selling Price



Range in 1957: With f/2 Sonnar, \$55-\$75

Special Identification Points: 1. Made only in black enamel finish, with nickel trim; 2. Only Contax model with shutter setting—film winding knob located on front of camera; 3. Only Contax model with separate eyepieces for view- and rangefinder; 4. Fastest shutter speed is 1/1000.

CONTAX MODEL II

Introduced: 1936 **Discontinued:** 1940
Shutter Speeds: ½ to 1/1250 sec., plus B and self-timer.

Flash Sync: None. See note beginning of Contax section.

Special Features: Combined eyepiece



for view- and rangefinder; other features same as Model I.

Last List Price: With 50mm, f/3.5 Tessar, \$168; with f/2 Sonnar, \$210

Last Reported Used Selling Price Range in 1957: With f/2 Sonnar, \$77-\$99

Special Identification Points: 1. Made only in chrome finish; 2. Combined eyepiece for view- and rangefinder; 3. Slow shutter speeds down to only ½ sec. instead of 1 sec. as in later Model IIa.

CONTAX MODEL IIa

Introduced: 1950 (Currently in production)

Shutter Speeds: 1 to 1/1250 sec., plus B and self-timer.

Flash Sync: Factory installed. Early models had threaded sync mount, required special adapter for M up to 1/25, different adapter for X up to 1/50. Current models have standard sync connector, use FP bulbs for 1/100 to 1/1250, X at 1/50, M up to 1/25.

Special Features: Film speed reminder dial combined with rewind knob. Other features same as Model II.

Note: 1954 version has MX sync.

Last List Price: With factory coated 50mm, f/3.5 Tessar, \$247; with 50mm, f/2 Sonnar, \$298

Last Reported Used Selling Price Range in 1957: With f/2 Sonnar, \$150-\$185

Special Identification Points: 1. Note differences in flash sync described



above; 2. Film speed reminder dial; 3. Early models have all black shutter speed markings. Later ones have black up to 1/25, yellow 1/50, red 1/100 to 1/1250.

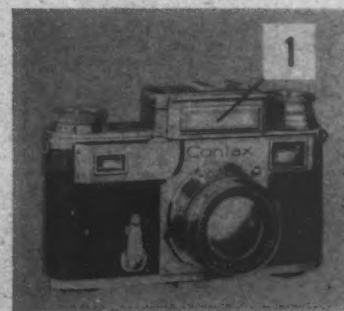
CONTAX MODEL III

Introduced: 1936 **Discontinued:** 1940
Shutter Speeds: ½ to 1/1250 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Contax section.

Special Features: Built-in photoelectric exposure meter calibrated in DIN or American Scheiner scales. Other features same as Model II.

Last List Price: With 50mm, f/3.5 Tessar, \$218; with f/2 Sonnar, \$255



Last Reported Used Selling Price Range in 1957: With f/2 Sonnar, \$99-\$120

Special Identification Points: 1. Built-in exposure meter calibrated in DIN or American Scheiner scales.

CONTAX MODEL IIIa

Introduced: 1951 (Currently in production)

Shutter Speeds: 1 to 1/1250 sec., plus B and self-timer.

Flash Sync: Same as Contax IIa.

Special Features: Built-in photoelectric exposure meter calibrated in ASA exposure indexes. Other features same as Model II.



Last List Price: With factory coated 50mm, f/3.5 Tessar, \$277; with 50mm, f/2 Sonnar, \$328

Last Reported Used Selling Price
Range in 1957: With f/2 Sonnar, \$178-\$225

Special Identification Points: 1. Built-in exposure meter has ASA calibrations; 2. Factory installed sync; 3. Add'l slow shutter speed of 1 sec.

CONTESSA

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

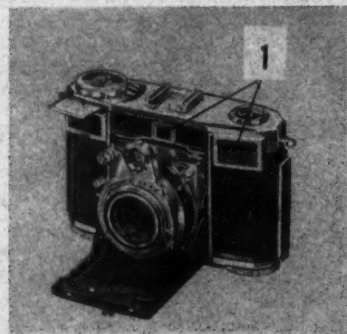
Film Size: Takes up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

CONTESSA 35

Introduced: 1950 **Discontinued:** 1955
Lens: Factory coated 45mm, f/2.8 Tessar.

Shutter: Early version had Compur-Rapid, 1 to 1/500 sec., plus B; version introduced in 1953 has Synchro-Compur, with same speeds.

Flash Sync: Factory installed. Earliest



version had only X sync; later ones have M and X.

Special Features: Coupled coincidence type rangefinder; single eyepiece for range-viewfinder; built-in photo-electric exposure meter; film-type indicator; double and blank exposure prevention; built-in depth of field scale; automatic exposure counter; accessory shoe; setting for optional fixed focus use.

Last List Price: With Synchro-Compur shutter, \$142

Last Reported Used Selling Price
Range in 1957: \$62-\$90

Special Identification Points: 1. Combined range-viewfinder; 2. Rangefinder coupled to lens.

CONTINA AND IKONTA 35

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

IKONTA 35

Introduced: 1948 **Discontinued:** 1952
Lens: From 1948 to 1950, came only with 45mm, f/3.5 Novar lens; from 1950 to 1952, came with 45mm, f/3.5 Novar, 45mm, f/2.8 Schneider Xenar, or 45mm, f/2.8 Tessar. Latest versions have factory coated lenses.

Shutter: From 1948 to 1950, came only with Klio, 1 to 1/250 sec., plus B and self-timer; from 1950 to 1952, came with Prontor S (with Novar lens), 1 to 1/300 sec., plus B and self-timer; or Compur-Rapid (with Xenar or Tessar lens), 1 to 1/500 sec., plus B.

Flash Sync: None in earliest version. Later had X sync, factory installed.

Special Features: Double and blank exposure prevention; optical-type viewfinder; setting for optional fixed focus use; built-in depth of field scale; automatic exposure counter; film-type indicator; accessory shoe (in all models except 1948-1950 version).

Last List Price: Not available.

Last Reported Used Selling Price
Range in 1957: With f/2.8 Tessar, \$38-\$59; with f/2.8 Xenar, \$37-\$50; with f/3.5 Novar, \$28-\$40

Special Identification Points: 1. From 1948 to 1950, came only with Klio shutter; 2. Prontor S or Compur-Rapid shutter, instead of Prontor SV, SVS, or Synchro-Compur, as in later Contina models.

CONTINA I (Early model)

Note: This model is the same as Ikonta 35, but came with factory coated



45mm, f/3.5 Novar in Prontor SV or SVS shutter, 1 to 1/300 sec., plus B and self-timer, or 45mm, f/2.8 Tessar in Synchro-Compur, 1 to 1/500, B.

Introduced: 1952 **Discontinued:** 1955
Flash Sync: Factory installed, M & X.
Special Features: Same as Ikonta 35.
Last List Price: With Tessar lens, \$60
Last Reported Used Selling Price
Range in 1957: \$32-\$40

Special Identification Points: 1. Prontor SV, SVS, or Synchro-Compur shutter, instead of Prontor S or Compur-Rapid, as in Ikonta 35.

CONTINA II (Early model)

Note: This model is basically the same as early model of Contina I, but has a built-in coincidence-type rangefinder which is not coupled to the lens. It comes with the same lens-shutter combinations as early model of Contina I.

Introduced: 1952 **Discontinued:** 1955
Last List Price: With Novar lens in



Prontor SVS shutter, \$49; with Tessar lens in Synchro-Compur, \$63

Last Reported Used Selling Price
Range in 1957: \$34-\$43

Special Identification Points: 1. Built-in, uncoupled rangefinder.

CONTINA I (Current model)

Introduced: 1955 (Currently in production)

Lens: Factory coated 45mm, f/3.5 Novar.

Shutter: Prontor SVS, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Rapid film advance lever; body shutter release; coupled film transport and shutter cocking; optical-type viewfinder; setting for optional fixed focus use; built-in depth of field scale; automatic exposure counter; film-type indicator; accessory shoe.

Last List Price: \$49

Last Reported Used Selling Price
Range in 1957: \$29-\$36

Special Identification Points: 1. Rigid lens assembly, instead of bellows as in Ikonta 35 and early model of Contina I; 2. No built-in exposure



meter as in current model of Contina II.

CONTINA II (Current model)

Note: This model is similar to current model of Contina I, but has a built-in photoelectric exposure meter and



comes with either factory coated 45mm, f/3.5 Novar, or 45mm, f/2.8 Novicar lens, in Prontor SVS shutter, 1 to 1/300 sec., plus B and self-timer.

Introduced: 1955 (Currently in production)

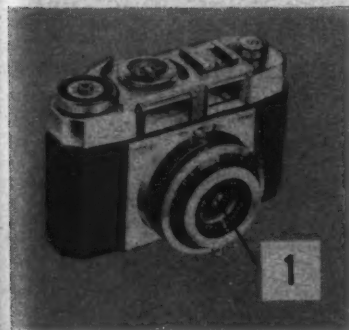
Last List Price: With Novar lens, \$75; with Novicar, \$86

Last Reported Used Selling Price Range in 1957: With f/2.8 Novicar, \$45-\$58

Special Identification Points: 1. Built-in exposure meter.

CONTINA III

Note: This camera is similar to current model of Contina II, but has 45mm, f/2.8 Pantar lens with front component interchangeable with accessory Pantar 30mm, f/4 wide-angle and 75mm, f/4 telephoto lens components.



Introduced: 1957 (Currently in production)

Last List Price: \$99

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Interchangeable front lens component.

EXAKTA

Manufacturer: Ihagee Kamerawerk A. G., Dresden, Germany

Importer: Exakta Camera Co., 705 Bronx River Road, Bronxville 8, N. Y.

Note: Also known as Kine Exakta.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard 35mm cartridges.

Lens: All models incorporate bayonet lens mounts for interchangeability of lenses. Standard lens on Exakta I or II was 50mm, f/3.5 or f/2.8 Zeiss Tessar, or 54mm, f/3.5 Exaktar. Standard lens on Exakta V or VX is 50mm, f/3.5 or f/2.8 Tessar; 58mm, f/2 Zeiss Biotar; 58mm, f/1.9 Primopan; or 50mm, f/1.5 Angenieux. Latest lenses have preset diaphragms.

Shutter: All models have focal-plane shutter, 12 to 1/1000 sec., plus B & T and self-timer (works with speeds from 6 to 1/1000 sec.).

EXAKTA I

Introduced: 1937 Discontinued: 1946

Flash Sync: Factory installed, for FP bulbs at all speeds (if properly adjusted). Also, M up to 1/25. Can add type I (X sync). See page 65.



Special Features: Film transport and shutter winding coupled; 2X magnified ground glass image; built-in film cutting knife; film transport and shutter winding by lever; shutter locked when camera is closed; sports finder; built-in magnifier for ground glass image.

Last List Price: Not available

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$59-\$75

Serial Numbers: To approximately 648,000

Special Identification Points: 1. Permanently fixed reflex viewfinder; 2. Removable back; 3. Only one set of flash contacts on front of camera; 4. Most of the Model I cameras were

marked "Exakta" instead of "Exakta" as in later models.

EXAKTA II

Introduced: 1949 Discontinued: 1950

Flash Sync: Same as Exakta I.

Special Features: Protective cover for magnifier. Other features same as Exakta I.

Last List Price: Not available

Last Reported Used Selling Price Range in 1957: With f/2.8 Tessar, \$78-\$99

Serial Numbers: Approximately 648,000 to 665,000



Special Identification Points: 1. Permanently fixed reflex viewfinder; 2. Removable back; 3. Only one set of flash contacts on front of camera; 4. The first few Model II cameras were marked "Exakta." Most of the Model II cameras, and all subsequent models, are marked "Exakta."

EXAKTA V

Note: Version marketed in Europe, and sometimes met with in U. S., was known as Varex.

Introduced: 1951 Discontinued: 1952

Flash Sync: Factory installed. Two sets of flash contacts. One marked M or V is for FP bulbs at 1/100 and faster, M type 1/25 and slower. Other set marked X or E gives X sync up to 1/50.

Special Features: Removable reflex finder hood (can be replaced with prismatic eye-level focusing finder). Other features same as Exakta II.

Last List Price: Not available

Last Reported Used Selling Price Range in 1957: With f/2 Xenon, \$110-\$130

Serial Numbers: Approximately 665,000 to 695,000

Special Identification Points: 1. Differentiated from Exakta I and II by having two sets of flash contacts;

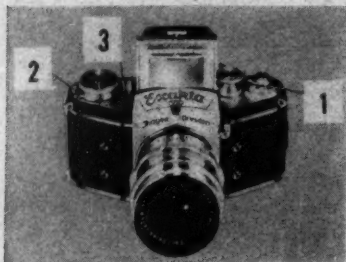


2. Further differentiated by Penta-Prism release lever on front of camera; 3. Differentiated from Exakta VX by not having film transport warning signal or film-speed indicator built in.

EXAKTA VX

Introduced: 1952 **Discontinued:** 1954
Flash Sync: Same as Exakta V.

Special Features: Accepts take-up cartridge; film transport warning signal; improved rewinding knob; hinged removable back; camera body and film aperture one piece;



improved latch on camera back release; built-in film-speed indicator. Other features same as Exakta V.

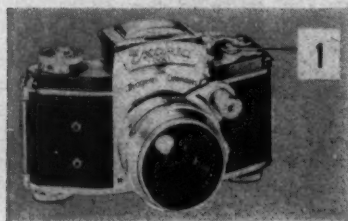
Last List Price: With waist-level finder: with 50mm, f/2.8 Tessar, \$259.50; with 58mm, f/2 Biotar, \$335

Last Reported Used Selling Price Range in 1957: With f/2 Biotar (preset), \$160-\$209

Serial Numbers: From approximately 695,000

Special Identification Points: 1. Film counter which counts exposures after they have been made; 2. Film transport warning signal; 3. Film-speed indicator.

EXAKTA AUTOMATIC VX



Note: This model is practically identical with Exakta VX 1952, except for a few improvements (see "special features").

Introduced: 1954 **Discontinued:** 1957

Lens: Standard lenses have fully automatic preset diaphragms: factory coated 50mm, f/2.8 Isco Westanar; 50mm, f/1.9 Schneider Xenon; or 50mm, f/2 Isco Westagon.

Special Features: Gear-set exposure counter; hinged safety cover which fits around shutter release; improved rewind mechanism; im-

proved shutter mechanism (exposures can be made with waist-level finder in folded position). Other features same as Exakta VX 1952.

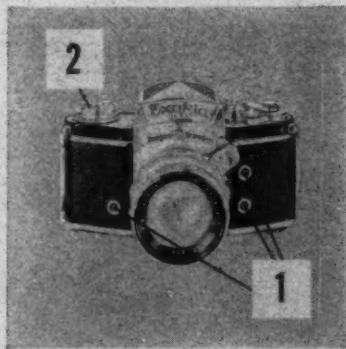
Last List Price: With Penta-Prism eye-level focusing finder; with 50mm, f/2.8 Isco Westanar, \$296.50; with 50mm, f/1.9 Schneider Xenon, \$398.70; with 50mm, f/2 Isco Westagon, \$336.50; with f/2 Biotar, \$392; with f/2.8 Tessar, \$326.50; with f/1.9 Auto-Quinon, \$398.70

Last Reported Used Selling Price Range in 1957: With f/2 auto. Westagon, \$160-\$181

Special Identification Points: 1. Gear for setting exposure counter.

EXAKTA AUTOMATIC IIa

Note: This camera is similar to Exakta Automatic VX 1954, but has the following differences: Three flash contacts, for FP bulbs, F, and X (up to 1/50 sec.) sync; additional slow shutter speed of 10 sec.; 13 sec. delay on speeds of 1 and 4 sec.; new rotary dial indicates film speeds; improved pressure plate, take-up spool, and camera back.



Introduced: 1957 (Currently in production)

Last List Price: With Penta Prism eye-level focusing finder and automatic diaphragm lens: with either f/2 Biotar, f/1.9 Xenon, or f/1.9 Quinon, \$399; f/2 Westagon, \$339.60; f/2.8 Tessar, \$333; f/2.8 Westanar, \$299.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Three flash contacts; 2. Additional slow speed setting of 10 sec.; 3. Inside of camera back has five protruding guide posts.

GRAPHIC 35

Manufacturer: Graflex, Inc., 154 Clarrissa St., Rochester 8, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridges.

GRAPHIC 35, f/3.5

Introduced: 1955 (Currently in production)

Lens: Factory coated 50mm, f/3.5 Graflar.

Shutter: Pronitor SVS, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M and X.



Special Features: Push-button focusing with built-in split-image type rangefinder; double exposure prevention; "Spectramatic" color coding simplifies setting shutter speed and lens opening for flash (operates for No. 5 and 25 bulbs); red dot setting for average outdoor pictures; built-in depth of field scale; accessory shoe; removable back.

Last List Price: \$77.50

Last Reported Used Selling Price Range in 1957: \$40-\$59

Special Identification Points: 1. f/3.5 lens.

GRAPHIC 35, f/2.8

Note: this camera is similar to Graphic 35, f/3.5 but has 50mm, f/2.8 Graflar lens, and its "Universal Spectramatic" color-coded flash settings work with almost all flashbulbs.

Introduced: 1956 (Currently in production)

Last List Price: \$89.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. f/2.8 lens.

KODAK RETINA AND RETINETTE

Manufacturer: Kodak A. G., Stuttgart, Germany

Importer: Eastman Kodak Co., Rochester, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

Lens: Lenses have 3, 4, or 6 elements, depending on camera model. All models except Retina IIIC have fixed mount (unremovable) lenses; Retina IIIC has front component interchangeable with accessory wide-angle and telephoto components.

Shutter: All models have between-the-lens shutters.

Flash Sync: Type 1 (X sync) can be added to any non-sync Retina. See page 65 for details.

Note: The following listing covers only models imported by Eastman Kodak. All cameras imported after 1948 have the letters "EK" preceding the serial number.

KODAK RETINA (1934 model)

Introduced: 1934 **Discontinued:** May, 1937

Lens: 50mm, f/3.5 Schneider Xenar.
Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. See note above.

Special Features: Self-erecting bed; finger and plunger shutter releases; lever operated focusing mount; duplicate focus and diaphragm scales for horizontal and vertical pictures; optical eye-level viewfinder; built-in depth of field scale; automatic exposure counter; film-lock release; hinged back; tripod socket.

Last List Price: \$52.50

Last Reported Used Selling Price Range in 1957: \$19-\$30

Special Identification Points: 1. Top shutter speed of only 1/300 sec., instead of 1/500 as in later models; 2. Made only in black finish with nickel trim.

KODAK RETINA (1935 model)

Introduced: February, 1935 **Discontinued:** May, 1937

Lens: 50mm, f/3.5 Schneider Xenar.
Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Same as 1934 model, except for shutter.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1957: \$18-\$27

Special Identification Points: 1. Top shutter speed of 1/500 sec., instead of 1/300 as in 1934 model; 2. Film-advance release on top of camera; 3. Made only in black finish with nickel trim.



KODAK RETINA (1936 model)

Introduced: December, 1936 **Discontinued:** May, 1937

Lens: 50mm, f/3.5 Schneider Xenar.
Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Retina section.

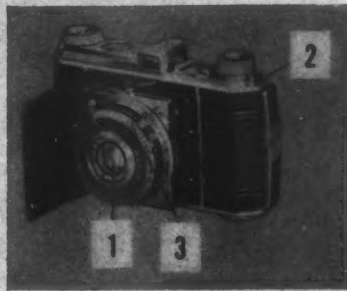
Special Features: Accessory shoe. Other features same as 1935 model.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1957: \$18-\$30

Special Identification Points: 1. Film-advance release on back of camera, instead of on top as in earlier models; 2. Accessory shoe; 3. Made only in black finish with nickel trim.

KODAK RETINA I (1937 model)



Introduced: 1937 **Discontinued:** 1938
Lens: 50mm, f/3.5 Kodak Anastigmat Ektar.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Satin-chrome finish. Other features same as Retina, 1936 model, except for lens.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1957: \$18-\$32

Special Identification Points: 1. Differentiated from previous Retina models by having Ektar instead of Xenar lens; 2. Made only with satin-chrome finish; 3. Differentiated from later Retina I, 1939 model, by having both B & T shutter settings instead of only B.

KODAK RETINA I (1939 model)

Introduced: September, 1939 **Discontinued:** June, 1940

Lens: 50mm, f/3.5 Kodak Ektar.
Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Body shutter release; double exposure prevention. Other features same as Retina I, 1937 model.

Last List Price: \$48.50

Last Reported Used Selling Price Range in 1957: \$19-\$35

Special Identification Points: 1. No T shutter setting; 2. Body shutter release; 3. Differentiated from later Retina I, 1948 model, by having Ektar instead of Xenar lens; 4. Accessory shoe.

KODAK RETINA I (1948 model)

Introduced: 1948 **Discontinued:** 1951
Lens: Factory coated 50mm, f/3.5 Schneider Xenar.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Coated lens. Other features same as Retina I, 1939 model, but had no accessory shoe.

Last List Price: \$72.75

Last Reported Used Selling Price Range in 1957: \$35-\$52

Special Identification Points: 1. Differentiated from previous Retina I, 1939 model, by having Xenar instead of Ektar lens; 2. No accessory shoe on top of camera.

KODAK RETINA II (1937 model)

Introduced: November, 1937 **Discontinued:** Model with f/2.8 lens, February, 1939; model with f/2 lens, June, 1940

Lens: 50mm, f/2.8 or f/2 Schneider Xenon.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.



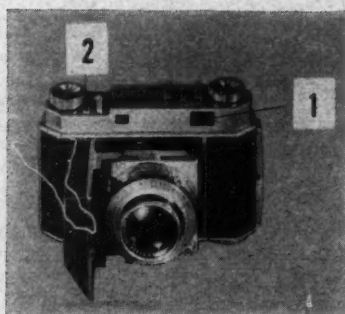
Special Features: Coupled coincidence-type rangefinder; double exposure prevention; body shutter release; enclosed optical viewfinder; automatic exposure counter; built-in depth of field scale; satin chrome finish.

Last List Price: With field case: with f/2.8 lens, \$115; with f/2 lens, \$120

Last Reported Used Selling Price Range in 1957: \$50-\$69

Special Identification Points: 1. First model with coupled rangefinder; 2. Separate windows for view- and rangefinder.

KODAK RETINA II (1948 model)



Introduced: October, 1948 **Discontinued:** September, 1950

Lens: Factory coated 50mm, f/2 Schneider Retina-Xenon.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Combined window for view- and rangefinder; accessory shoe. Other features same as Retina II, 1937 model, but had coated lens.

Last List Price: \$197.75

Last Reported Used Selling Price Range in 1957: \$50-\$74

Special Identification Points: 1. Combined, instead of separate, windows for view- and rangefinder; 2. No one-stroke film advance lever; 3. No factory installed flash sync.

KODAK RETINA IIA



Introduced: August, 1951 **Discontinued:** January, 1955

Lens: Factory coated 50mm, f/2 Schneider Retina-Xenon.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X.

Special Features: One-stroke film advance lever; film-speed indicator. Other features same as Retina II, 1948 model.

Last List Price: \$127.50

Last Reported Used Selling Price Range in 1957: \$69-\$89

Special Identification Points: 1. Factory installed MX flash sync; 2. No built-in photoelectric exposure meter; 3. Film advance lever on top instead of bottom of camera.

KODAK RETINA IIC

Introduced: March, 1955 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Schneider Retina-Xenon C; front component is interchangeable with accessory wide-angle or telephoto component.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Shutter incorporates Exposure Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping rela-



tive exposures constant); viewfinder with projected-field frame and parallax correction indicators. Other features same as Retina IIA.

Last List Price: \$125

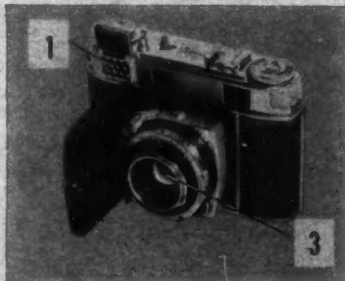
Last Reported Used Selling Price Range in 1957: \$87-\$105

Special Identification Points: 1. Differentiated from Retina IIA by having film advance lever on bottom instead of top of camera; 2. Interchangeable front lens component; 3. No built-in exposure meter as in Retina IIC.

KODAK RETINA IIIC

Introduced: November 1954 (Currently in production)

Lens: Factory coated 50mm, f/2 Schneider Retina-Xenon C; front component is interchangeable with accessory wide-angle or telephoto component.



Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Shutter incorporates Exposure Value Scale cross-coupled to lens diaphragm (as shutter speeds

are changed, lens opening changes correspondingly, thus keeping relative exposures constant); built-in photoelectric exposure meter providing direct Exposure Value Scale readings; viewfinder with projected-field frame and parallax correction indicators. Other features same as Retina IIA.

Last List Price: \$165

Last Reported Used Selling Price Range in 1957: \$99-\$135

Special Identification Points: 1. Built-in photoelectric exposure meter; 2. Film advance lever on bottom instead of top of camera as in Retina IIA; 3. Interchangeable front lens component.

KODAK RETINETTE

Introduced: June, 1952 **Discontinued:** May, 1954

Lens: Factory coated 50mm, f/4.5 Schneider Reomar.

Shutter: Prontor SV, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Hinged back; double exposure prevention; body shutter release; automatic exposure count-



er; built-in depth of field scale; enclosed optical viewfinder; accessory shoe; satin chrome finish.

Last List Price: \$56.25

Last Reported Used Selling Price Range in 1957: \$25-\$35

Special Identification Points: 1. Schneider Reomar lens.

KONICA

Manufacturer: Konishiroku Photo Industry Co., Ltd., Tokyo, Japan

Importer: Konica Camera Co., 76 W. Chelton Ave., Philadelphia 44, Pa.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridges.

KONICA (1946 version)

Introduced: 1946 **Discontinued:** 1952

Lens: Factory coated 50mm, f/3.5 Hexar.

Shutter: Konirapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. Add type 1 (X sync). See page 65.



Special Features: Coupled coincidence-type rangefinder; combined window for view- and rangefinder; automatic exposure counter; helical focusing.

Last List Price: \$69.75

Last Reported Used Selling Price Range in 1957: \$22-\$31

Serial Numbers: Up to 26,000

Special Identification Points: 1. Shutter has time setting; 2. No factory installed sync; 3. No double exposure prevention.

KONICA I

Introduced: 1950 **Discontinued:** 1954

Lens: Factory coated. Until 1951, came with 50mm, f/3.5 Hexar; from 1951 to 1952, came with 50mm, f/2.8 Hexar; from 1951 to 1954, came with 50mm, f/2.8 Hexanon.

Shutter: Konirapid S, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed. M to 1/50, F at all speeds.

Special Features: Same as 1946 Konica except for flash sync.

Last List Price: With Hexar f/3.5 or f/2.8 lens, \$69.75; with Hexanon f/2.8, \$79.75



Last Reported Used Selling Price Range in 1957: \$30-\$42

Serial Numbers: Hexar f/3.5 version, up to 37,600; Hexar f/2.8 version, up to 46,000; Hexanon f/2.8 version, up to 68,700

Special Identification Points: 1. Factory installed sync connector; 2. Shutter does not have Time setting; 3. No double exposure prevention.

KONICA II

Introduced: 1951 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Hexanon.

Shutter: Konirapid S, 1 to 1/500 sec., plus B & T.

Flash Sync: Factory installed. Up to April, 1956, M to 1/50, F at all speeds. Latest version has F, M, and X with selector switch.

Special Features: Recessing lens mount; focusing lever which extends and locks lens mount in shooting position; double exposure prevention with provision for intentional double exposures; body



shutter release; film-type indicator. Other features same as Konica I.

Last List Price: \$89.75

Last Reported Used Selling Price Range in 1957: \$42-\$59

Special Identification Points: 1. Up to April, 1956, marketed with ASA bayonet flash connector. Latest version has internal PC connector at side of lens; 2. Shutter has Time setting; 3. Body shutter release.

KONICA IIA

Introduced: December, 1955 **Discontinued:** 1956

Lens: Factory coated 48mm, f/2 Hexanon.

Shutter: Konirapid FMX, 1 to 1/500 sec., plus B & T.

Flash sync: Factory installed F, M, and X, with selector switch.

Special Features: Full sync. Other features same as Konica II.

Last List Price: \$119.75

Last Reported Used Selling Price Range in 1957: \$60-\$81

Special Identification Points: 1. 48mm, f/2 Hexanon lens; 2. Full sync.



KONICA III

Introduced: July, 1956 (Currently in production)

Lens: Factory coated 48mm, f/2 Hexanon.

Shutter: First version has Konirapid FMX, 1 to 1/500 sec., plus B and self-timer; current version has Seikosha MXL Light Value shutter cross-coupled to lens diaphragm.

Flash Sync: Factory installed, F, M, and X, with selector.

Special Features: Coupled coincidence type rangefinder with single eyepiece for view- and rangefinder; bright line view-rangefinder with parallax correction lines; rapid film advance lever; self resetting exposure counter; film rewind crank; double exposure prevention; self-timer can be used with F, M, or X sync at all shutter speeds (in current version).



Last List Price: \$124.75

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Self-timer; 2. Film rewind crank; 3. Rapid film advance lever; 4. Current version has Seikosha MXL Light Value shutter.

LEICA

Manufacturer: Ernst Leitz, G.M.B.H., Wetzlar, Germany

Importer: E. Leitz, Inc., 468 Fourth Ave., New York 16, N. Y.

Film Size: All models except Models 250 and "72" take up to 36 double frame (1 x 1 1/2 in.) pictures on standard cartridge films. They also accept special Leica cassettes for loading bulk film. Model 250 uses special magazines and takes up to 250 double frame pictures; Model "72" takes up to 72 single frame (3/4 x 1 in.) pictures on standard cartridges and also accepts Leica cassettes.

Lens: All models except Models A, B, and M-3 incorporate threaded lens mounts for interchangeability of lens (Leica M-3 uses bayonet mount). Standard lens on older models was 50mm, f/3.5 Elmar; f/2

Summar; or f/2 Summarit. Standard lens on latest models is factory coated 50mm, f/2.8 Elmar, f/2 Summicron, or f/1.5 Summarit. Focal lengths 28 to 400mm available.

Shutter: All models except Model B have rubberized cloth focal-plane shutter. Model B has Compur between-the-lens shutter.

Flash Sync: Either Type 1 (X sync) or Type 2 (with FP bulbs) can be added to any non-sync Leica, except Model B. See page 65 for details.

Quick Identification Points: Leica models without built-in rangefinder: A, B, C, Standard, Ic, and If.

Leica models with coupled rangefinder but without front slow shutter-speed dial: II, Ilc, III.

Leica models with coupled rangefinder and front slow shutter-speed dial: III, IIIa, IIIb, IIIc, IIIf, IIIfg.

Leica models with factory installed sync and built-in film speed indicator: If, IIIf, IIIfg, M3 (last two have indicator located on camera back instead of in winding knob).

Leica model with bayonet lens mount: M3.

Note: Models A, B, and C came only in black enamel finish. Models Standard, II, and III came in either black enamel or chrome finish. Model IIIa and all subsequent models came only in chrome finish.

Note: Models Ic, Ilc, IIIc, If, IIIf, IIIfg, and IIIfg measure $5\frac{3}{8}$ in. in length. Models A, B, C, Standard, II, III, IIIa and IIIb measure $5\frac{1}{4}$ in. and accessories which fit their base plates do not fit the later models. Model IIIfg measures $3\frac{1}{16}$ in. higher than f Models because of larger viewfinder; a few f series accessories do not fit it.

LEICA MODEL I (Models A and B)



Introduced: 1924 **Discontinued:** 1930
Lens: 50mm, f/3.5 Elmar.

Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Film transport coupled with shutter winding; double and blank exposure prevention; accessory shoe; automatic exposure counter.

Last List Price: With 50mm, f/3.5 Elmar, \$75

Last Reported Used Selling Price Range in 1957: \$20-\$35

Serial Numbers: Below 54,000

Special Identification Points: 1. Permanently fixed lens mount; 2. No provision for cable release; 3. Made only with black enamel finish; 4. Spring infinity stop located at base of focusing mount; 5. No built-in rangefinder.

Note: Leica Model B is similar to Model A, but has a Compur instead of focal-plane shutter. Only a few were made.

Flash Sync: None. Add Type 1 (X sync). See page 65.

LEICA MODEL C

Introduced: 1930 **Discontinued:** 1933
Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Interchangeability of lenses (earliest version required special fitting of interchangeable lenses; beginning in March, 1931, from serial number 60,500 upward, letter O was engraved on lens flange to indicate that no special fitting was required); provision for using cable release. Other features same as Model A.

Last List Price: With 50mm, f/3.5 Elmar, \$66

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$30-\$43

Serial Numbers: Above 54,000 and below 100,000

Special Identification Points: 1. Provision for interchanging lenses; 2. Made only with black enamel finish; 3. Rewind knob does not pull up; 4. No built-in rangefinder.

Note: Illustration shows Model C with separate Fokos rangefinder attached. Longer, vertically mounted Fodis rangefinder was originally supplied with the camera.



LEICA STANDARD MODEL (Model E)



Introduced: 1933 **Discontinued:** 1940
Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Rewind knob pulls up for easier rewinding. Other features same as Model C.

Last List Price: With 50mm, f/3.5 Elmar: black enamel finish, \$128; chrome, \$134.80

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$36-\$52

Serial Numbers: Above 100,000 and below 360,000

Special Identification Points: 1. Pull-up rewind knob; 2. No built-in rangefinder.

LEICA MODEL Ic

Introduced: 1949 **Discontinued:** 1952
Shutter Speeds: 1/30 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Additional accessory shoe for detachable viewfinder; roller bearings in shutter; exposure counter moves by one division, instead of making complete revolution. Other features same as Standard model.

Last List Price: With 50mm, f/3.5 Elmar, \$136



Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$52-\$73

Serial Numbers: Above 455,000 and below 562,000

Special Identification Points: 1. Body measures $5\frac{3}{8}$ in. in length, instead of $5\frac{1}{4}$ in. as in Standard model; 2. Shutter speeds start at 1/30, instead of 1/20 sec. as in Standard; 3. No factory installed sync or film-speed indicator dial; 4. No built-in rangefinder.

LEICA MODEL If

Introduced: 1952 (Currently in production)

Shutter Speeds: 1/25 or 1/30 to 1/500 sec. (see note under "shutter" in IIIIf section), plus B.

Flash Sync: Factory installed. Same as IIIIf, below.

Special Features: Film-speed indicator built into winding knob. Other features same as Standard model.

Last List Price: With factory coated 50mm, f/3.5 Elmar and viewfinder, \$139.50

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$80-\$114

Serial Numbers: Above 562,000

Special Identification Points: 1. Factory installed sync and built-in film-speed indicator; 2. No built-in rangefinder.

LEICA MODEL II (Model D)

Introduced: 1932 Discontinued: 1940
Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Coupled rangefinder. Other features same as Standard model.

Last List Price: With 50mm, f/3.5 Elmar; black enamel finish, \$196.80;



chrome, \$203.20

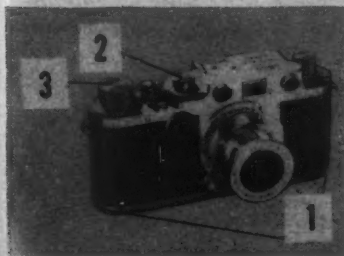
Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$48-\$70

Serial Numbers: Above 71,500 and below 360,000.

Special Identification Points: 1. Coupled rangefinder; 2. No front slow shutter-speed dial; 3. No lever for adjusting rangefinder as in Model III, below.

LEICA MODEL IIc

Introduced: 1949 Discontinued: 1951
Shutter Speeds: 1/30 to 1/500, B.



Flash Sync: None. See note, beginning of Leica section.

Special Features: Coupled rangefinder. Other features same as Model Ic.

Last List Price: With 50mm, f/3.5 Elmar, \$210

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$74-\$106

Serial Numbers: Above 440,000 and below 451,000

Special Identification Points: 1. Body measures 5 1/4 in. in length, instead of 5 1/4 in. as in Model II; 2. Shutter speeds start at 1/30, instead of 1/20 sec. as in II; 3. No factory installed sync or film-speed indicator dial as in IIIf, below.

LEICA MODEL IIIf

Introduced: 1951 Discontinued: 1957
Shutter Speeds: 1/30 or 1/25 to 1/500 sec. (see note under "shutter" in IIIIf



section) plus B. Latest version has speeds up to 1/1000 sec.

Special Features: Coupled rangefinder. Other features same as Model If.

Flash Sync: Factory installed. Same as IIIIf, below.

Last List Price: With following factory coated lenses: 50mm, f/3.5 Elmar \$178.50; f/2 Summarit \$289; f/2 Summicron, \$276.

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$99-\$130

Serial Numbers: Above 551,000

Special Identification Points: 1. Built-in film-speed indicator.

LEICA MODEL III (Model F)

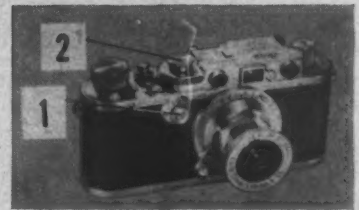
Introduced: 1933 Discontinued: 1940
Shutter Speeds: 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Separate front slow shutter-speed dial for additional slow shutter speeds down to 1 sec.; 1.5X magnifier built into rangefinder eyepiece; lever for adjusting rangefinder. Otherwise similar to Model II.

Last List Price: With 50mm, f/2 Summarit; black enamel finish, \$313; chrome, \$320

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$60-\$90



Serial Numbers: Above 109,000 and below 360,000

Special Identification Points: 1. Front slow shutter-speed dial with settings from 1/20 down to 1 sec.; 2. Top shutter speed is only 1/500 sec.

LEICA MODEL IIIa (Model G)

Introduced: 1935 Discontinued: 1938
Shutter Speeds: 1 to 1/1000, B & T.
Flash Sync: None. See note, beginning of Leica section.

Special Features: Additional top shutter speed of 1/1000 sec. Other features same as Model III.

Last List Price: With 50mm, f/2 Summar, \$192

Last Reported Used Selling Price Range in 1957: With f/2 Summar, \$60-\$100; with f/2 Summarit, \$110-\$140

Serial Numbers: Above 156,201 and below 240,016

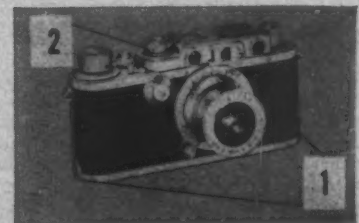


Special Identification Points: 1. Top shutter speed of 1/1000 sec.; 2. Rangefinder adjusting lever is located on rangefinder eyepiece instead of at base of rewind knob as in IIIIf.

LEICA MODEL "72"

Introduced: October, 1954 Discontinued: 1957

Film Size: Up to 72 single frame (3/4 x 1 in.) pictures on standard 35mm cartridge film (also accepts Leica cassettes).



Flash Sync: Factory installed. Same as black dial IIIf, below.

Note: This model has the same proportions and features (except for the single frame picture format) as the Leica Model IIIa, plus film-type indicator built into winding knob.

Last List Price: Less lens, \$189; with 50mm, f/3.5 Elmar lens, \$246

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: Above 357,301 and below 357,500

Special Identification Points: 1. Measures $5\frac{1}{4}$ in. in length; 2. Factory installed sync (synchro selector dial can easily be seen); 3. Only Leica which takes single frame pictures.

LEICA MODEL IIIb (Model G, 1938)



Introduced: 1938 **Discontinued:** 1940
Shutter Speeds: 1 to 1/1000, B & T.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Viewfinder and rangefinder eyepieces placed close together. Other features same as Model IIIa.

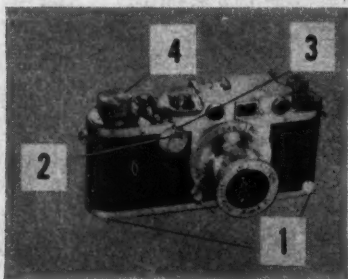
Last List Price: With 50mm, f/2 Summitar, \$332.80

Last Reported Used Selling Price Range in 1957: With f/2 Summitar, \$115-\$142; with f/3.5 Elmar, \$85-\$113

Serial Numbers: Above 240,017 and below 360,000

Special Identification Points: 1. Rangefinder adjusting lever is located at base of rewind knob; 2. Viewfinder and rangefinder eyepieces are closer together than on Model IIIa.

LEICA MODEL IIIc



Introduced: 1940 **Discontinued:** 1950
Shutter Speeds: 1 to 1/1000 sec., plus B & T.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Roller bearings in shutter; improved exposure counter (moves by one division, instead of making complete revolution, when winding film). Other features same as Model IIIb.

Last List Price: With 50mm, f/2 Summitar, \$385

Last Reported Used Selling Price Range in 1957: With f/2 Summitar, \$100-\$140; with f/3.5 Elmar, \$90-\$128

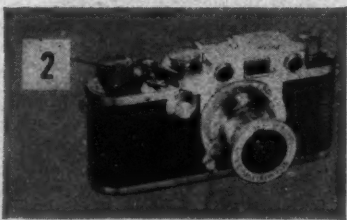
Serial Numbers: Above 360,000 and below 525,000

Special Identification Points: 1. Body measures $5\frac{3}{8}$ in. in length instead of $5\frac{1}{4}$ in. as in previous models; 2. Front slow speed dial markings start at 1/30 instead of 1/20 sec. as in IIIb; 3. Version made before 1949, with serial number below 380,000, had no locking stud on slow speed dial; later version, made after 1949, was supplied with locking stud; 4. No built-in film-speed indicator.

LEICA MODEL IIIf (1950 Version)

Introduced: 1950 **Discontinued:** 1954

Shutter Speeds: 1 to 1/1000 sec., plus B & T. **Note:** Initial production of f series Leica cameras (with synchro dials engraved in black) had same series of shutter speeds as corresponding c series models: fast speeds: 1/30, 1/40, 1/60, 1/100 sec., etc.; slow speeds: 1/30, 1/20,



1/15, 1/10, 1/4, 1/2, and 1 sec. Current f series cameras (with synchro dials engraved in red) have following shutter speeds: fast speeds: 1/25, 1/50, 1/75, 1/100 sec., etc.; slow speeds: 1/25, 1/15, 1/10, 1/5, 1/2, and 1 sec.

Flash Sync: Factory installed, X up to 1/30 (black dial model) or 1/50 (red dial model); FP bulbs at 1/100 and faster. Synchro selector dial adjusts flash delay.

Special Features: Film-speed indicator built into winding knob. Other features same as Model IIIc.

Last List Price: With following factory coated lenses: 50mm, f/3.5 Elmar, \$237; f/2 Summitar, \$369; f/2 Summicron, \$336

Last Reported Used Selling Price

Range in 1957: With f/2 Summicron, \$190-\$239; with f/3.5 Elmar, \$149-\$180

Serial Numbers: Above 525,000

Special Identification Points: 1. Black dial on earlier models, red dial on later models; progression of shutter speeds; 2. Built-in film-speed indicator.

LEICA MODEL IIIf (1954 Version)

Introduced: 1954 **Discontinued:** 1957

Note: This model is exactly like the immediately preceding IIIf, except that it has a built-in self-timer.

Last List Price: With factory coated 50mm, f/3.5 Elmar lens, \$238.50; with 50mm, f/2 Summicron, \$336

Last Reported Used Selling Price Range in 1957: With f/2 Summicron, \$201-\$248

Serial Numbers: Above 685,000



Special Identification Points: 1. Self-timer on front of camera, next to slow speed dial.

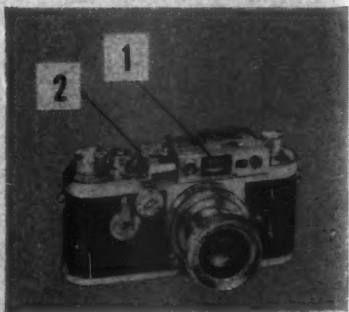
LEICA MODEL IIIg

Note: This camera is similar to the last (1954) version of Model IIIf, but has several improvements (see description below).

Introduced: 1957 (Currently in production)

Shutter Speeds: Fast speeds are 1/30, 1/60, 1/125, 1/250, 1/500, 1/1000 sec., slow speeds are 1/30, 1/15, 1/8, 1/4, 1/2, 1 sec., plus B & T. Each setting gives half or double the exposure of the next.

Flash Sync: Factory installed. Instead of setting a synchro dial manually, as in Model IIIf, flash contact setting now changes internally and automatically as shutter speed is varied. M and X at 1/30 or 1/60 (marked by lightning-bolt symbols); FP bulbs at all speeds to 1/1000.



Special Features: New, larger bright frame viewfinder with automatic parallax compensation, for fields of 50 and 90mm lenses (overall height of camera is increased by 3/16 in. because of larger viewfinder); film-type indicator on camera back. Other features same as last version of Model IIIg.

Note: Because of the larger viewfinder, two or three of the f series accessories, such as the Nooky close focusing device and Focoslide (requires slight alteration) do not fit Model IIIg.

Last List Price: Less lens, \$186. With following factory coated 50mm lenses: f/2.8 Elmar, \$273; f/2 Summicron, \$342; f/1.5 Summarit, \$381.

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. Larger viewfinder; 2. No synchro dial; 3. Film-type indicator located on camera back.

LEICA MODEL M3

Introduced: April, 1954 (Currently in production)

Note: The M3 is a completely new camera, and bears little resemblance to other Leica models. It measures 3 in. high, 5 7/8 in. long, and 1 1/2 in. deep.

Film Size: Same as other Leica models.

Lens: Interchangeable; bayonet mount (owners of earlier model Leicas can



have their thread-mount lenses equipped with bayonet adapters for use in the new M3 camera).

Standard lenses are 50mm, f/3.5 Elmar M; 50mm, f/2 Summicron M; or 50mm, f/1.5 Summarit M, all with click stops. Accessory lenses: 35mm, f/3.5 Summaron M; 90mm, f/4 Elmar M (in either rigid or collapsible mount); 135mm, f/4.5 Hektor M.

Shutter: Focal-plane, 1 to 1/1000 sec., plus B and self-timer. Speeds can be set on the single dial before or after shutter winding.

Flash Sync: Factory installed. X up to 1/50; FP bulbs at all speeds up to 1/1000 sec. Separate flash connections; delay set automatically as speed dial is rotated.

Special Features: Coupled rangefinder with single window for range-viewfinder; automatic parallax adjustment; large viewfinder image; built-in field-of-view for 50mm, 90mm and 135mm lenses (frames for 90mm and 135mm lenses automatically appear when lenses of corresponding focal length are installed in camera); exposure counter which resets automatically when camera is loaded; single shutter-speed dial to which accessory M3 photoelectric exposure meter automatically couples; removable hinged back with improved pressure plate and film channel guides; film-type indicator on camera back; double and blank exposure prevention; film transport coupled with shutter winding; rapid film-advance lever; accessory shoe; self-timer.

Last List Price: With 50mm, f/3.5 Elmar M, \$354; with 50mm, f/2 Summicron M, \$447; with 50mm, f/1.5 Summarit M, \$477

Last Reported Used Selling Price Range in 1957: With f/2 Summicron, \$290-\$339

Serial Numbers: Above 700,001

Special Identification Points: 1. Latest version has frame selector lever for selecting viewfinder frames for 90mm and 135mm lenses; 2. Rapid film advance lever; 3. Lever for selecting film "advance" or "rewind" situated on front of camera; 4. Bayonet lens mount; 5. Combined rangefinder-viewfinder window; 6. Single shutter-speed dial.

LEICA MODEL 250 (Model FF)

Introduced: 1934 **Discontinued:** 1940

Shutter Speeds: 1 to 1/500 sec., plus B & T.

Flash Sync: See note, beginning of Leica section.

Special Features: Accepts special magazines for taking up to 250 double frame pictures. Other features same as Model III.



Last List Price: With 50mm, f/3.5 Elmar, \$355.20

Last Reported Used Selling Price Range in 1957: With f/3.5 Elmar, \$170-\$201

Serial Numbers: Above 130,000 and below 360,000

Special Identification Points: 1. Extra large dimensions to accommodate 250-exposure magazines.

MINOLTA

Manufacturer: Chiyoda Kogaku Seiko Co., Ltd., Osaka, Japan

Distributor: The FR Corp., 951 Brook Ave., New York 51, N. Y.

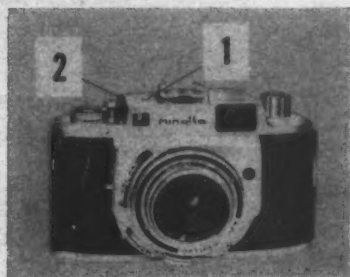
Film Size: All models take up to 36 double frame (1 x 1 1/2 in.) pictures using standard cartridge films.

MINOLTA A

Introduced: 1955 (Currently in production)

Lens: Factory coated 45mm, f/3.5 Rokkor.

Shutter: Behind-lens Optiper MFX, 1 to 1/300 sec., plus B.



Flash Sync: Factory installed, M, F, and X.

Special Features: Coincidence type coupled rangefinder combined with viewfinder; rapid film advance lever coupled to shutter wind; accessory shoe; body shutter release; built-in depth of field scale.

Last List Price: \$49.95

Last Reported Used Selling Price Range in 1957: \$24-\$38

Special Identification Points: 1. "A" engraved on top of rangefinder housing; 2. Rapid film advance lever located on top of camera.

MINOLTA A-2

Introduced: 1957 (Currently in production)

Lens: Factory coated 45mm, f/2.8 Rokkor.

Shutter: Behind-lens Optiper MXV, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: Factory installed, M and X.

Special Features: Bright frame viewfinder combined with coincidence type coupled rangefinder; flash guide scale simplifies flash exposures; shutter speed selector on top of camera body; settings for universal-focus operation; other features same as Minolta A.

Last List Price: \$69.95

Last Reported Used Selling Price Range in 1957: Not available.



Special Identification Points: 1. "A-2" engraved on top of rangefinder housing; 2. Shutter speed selector located on top of camera body.

MINOLTA SUPER A

Introduced: 1957 (Currently in production)

Lens: Interchangeable, by means of bayonet lens mount. Standard lens is factory coated 50mm, f/2 Super Rokkor. Accessory lenses are 35mm, f/3.5; 100mm, f/3.8; and 135mm, f/4.5.

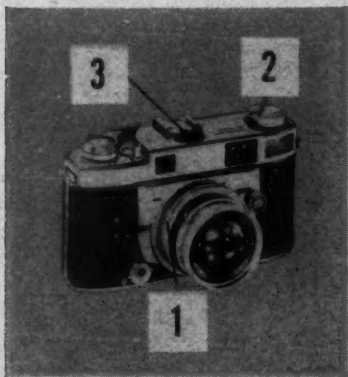
Shutter: Behind-lens Seikoshia, 1 to 1/400 sec., plus B.

Flash Sync: Factory installed, M and X.

Special Features: Bright frame viewfinder combined with coincidence type rangefinder; rapid film advance lever coupled to shutter cocking; folding lever-type film rewind; accepts accessory exposure meter which couples to shutter speed dial (see illustration); exposure counter automatically resets to zero; film-type indicator; shutter speed selector on top of camera body; body shutter release; accessory shoe.

Last List Price: With 50mm, f/2 Super Rokkor, \$129.50

Last Reported Used Selling Price Range in 1957: Not available.



Special Identification Points: 1. Interchangeable lenses; 2. Folding, lever-type film rewind; 3. Shutter speed selector located on top of camera.

MINOLTA 35, MODEL II

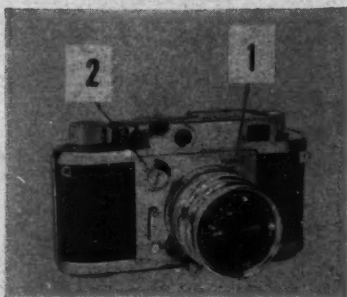
Note: An earlier, similar model may occasionally be seen in camera stores, although it was never directly imported into the U.S.A.

Introduced: 1953 (Currently in production)

Lens: Interchangeable, by means of threaded lens mount. Standard lenses are factory coated 45mm, f/2.8, or 50mm, f/2 Super Rokkor. Accessory lenses are 110mm, f/5.6, and 135mm, f/4 Tele Rokkor.

Shutter: Focal-plane, 1 to 1/500 sec., plus B and T and self-timer.

Flash Sync: Factory installed. For FP bulbs; X sync up to 1/25 sec.



Special Features: Coupled coincidence type rangefinder with single window for view-rangefinder; double exposure prevention; viewfinder adjustment for eyesight; accepts special cassettes for loading bulk film; accessory shoe; hinged back.

Last List Price: With 45mm, f/2.8 Super Rokkor, \$159.50; with 50mm, f/2 Super Rokkor, \$184.50

Last Reported Used Selling Price Range in 1957: With f/2.8 Super Rokkor, \$77-\$101

Special Identification Points: 1. "Model II" engraved on front of camera; 2. Red "X" for X type sync engraved on slow speed dial.

NIKON

Manufacturer: Nippon Kogaku K.K., Tokyo, Japan

Importer: Nikon, Inc., 251 Fourth Ave., New York 10, N. Y.

Film Size: All models except Model 1 and Model M take up to 36 double frame (1 x 1½ in.) pictures. Model 1 takes up to 40 pictures 24 x 32mm; Model M takes up to 36 pictures 24 x 34mm. All models accept standard cartridges.

Lens: All models incorporate bayonet lens mounts for interchangeability of lenses; all factory coated; standard lens is 50mm, f/2 Nikkor or 50mm, f/1.4 Nikkor. Focal lengths from 25mm to 500mm are available.

Shutter: Cloth focal-plane shutter.

NIKON MODEL 1

Introduced: 1948 **Discontinued:** 1949

Shutter Speeds: 1 to 1/500 sec., B & T. **Flash Sync:** None.

Special Features: Same as Model "S" (see description, below).

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Exposure counter numbered past 40; 2. No factory installed flash sync.

NIKON MODEL M

Introduced: 1949 **Discontinued:** 1952

Shutter Speeds: 1 to 1/500 sec., B & T. **Flash Sync:** None

Special Features: Same as Model "S" (see description below).

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Exposure counter numbered to 36; 2. No factory installed flash sync.

NIKON MODEL "S"

Introduced: 1952 **Discontinued:** 1954

Shutter Speeds: 1 to 1/500 sec., B & T. **Flash Sync:** Factory installed. Two flash outlets. "S" is for X sync up to 1/20; "F" for FP bulbs, 1/40 and faster.



Special Features: Coupled long base rangefinder; single, dual purpose eyepiece for viewing and focusing; finger tip wheel for focusing 50mm and wide-angle lenses from top of camera; full opening back; interchangeable lenses; coupled film transport and shutter cocking; double exposure prevention; accepts full range of accessories; automatic exposure counter.

Last List Price: With factory coated 50mm, f/2 Nikkor, \$269; with factory coated 50mm, f/1.4 Nikkor, \$299.50

Last Reported Used Selling Price Range in 1957: With f/2 Nikkor, \$110-\$149

Special Identification Points: 1. Top shutter speed 1/500; 2. Double prong synchro outlet, marked for speed light and for flashbulbs; 3. Camera back has two locks.

NIKON MODEL "S2"

Introduced: 1955 (Currently in production)

Shutter Speeds: 1 to 1/1000, B & T. **Flash Sync:** Factory installed. Single outlet on side for X at 1/50, FP bulbs 1/60 and faster. Sync selector dial sets delay. Outlet on top for special flashgun, FP bulbs.

Special Features: 1 to 1 life size image in rangefinder-viewfinder; single stroke lever for rapid film transport advances film and sets shutter for next exposure; high speed film rewind lever, folds and rests flush in rewind knob; shutter speed can be set before or after film is wound.

Last List Price: With factory coated 50mm, f/2 Nikkor, \$299.50; with factory coated 50mm, f/1.4 Nikkor,



\$345; with 50mm, f/1.1 Nikkor, \$494.50

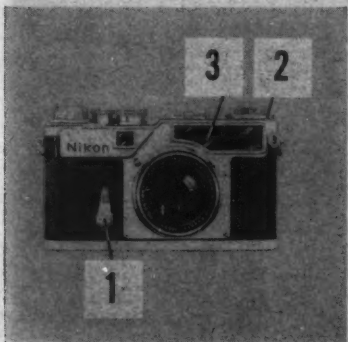
Last Reported Used Selling Price Range in 1957: With f/2 Nikkor, \$188-\$215

Special Identification Points: 1. Single stroke film wind and shutter cocking lever; 2. High speed film rewind lever which folds and sets flush in rewind knob; 3. No self-timer.

NIKON MODEL SP

Introduced: 1957 (Currently in production)

Shutter Speeds: 13 speeds from 1 to 1/1000 sec., plus B & T and self-timer.



Flash Sync: Factory installed. Color-coded shutter speed dial which is set by lifting up, turning outer ring of dial. Sync type appears in small window in front of shutter

dial. For all bulb types and electronic flash. Single flash outlet on side, as well as one on top for special flashgun.

Special Features: Built-in universal viewfinder shows fields of lenses from 28mm to 135mm (bright-frame image combined with rangefinder for lenses from 50mm to 135mm; adjacent finder for 28mm and 35mm lenses); exposure counter resets automatically; 20 or 35 exposure film load reminder. Other features same as Nikon Model S2.

Last List Price: With factory coated 50mm Nikkor: f/2, \$369.50; f/1.4, \$415

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Self-timer; 2. Extra large viewfinder window; 3. Lens field selector dial.

PRAKTINA

Manufacturer: Kamera-Werke Veb Niedersedlitz, Dresden, Germany.

Importer: Standard Camera Corp., 319 Fifth Ave., New York 16, N. Y.

Film Size: Up to 36 double frame (1 x 1½ in.) pictures using standard 35mm cartridges (up to 420 pictures, with accessory magazine).

Lens: Interchangeable, by means of recessed bayonet mount. Standard lenses, among others, are 50mm, f/2.8 Jena Tessar; 55mm, f/1.9 Steinheil Quinon; and 58mm, f/2 Jena Biotar, all with automatic diaphragm. Accessory lenses range from 28mm to 400mm.

Shutter: Rubberized cloth focal-plane.

PRAKTINA FX

Note: A similar camera, marketed under a variety of trade names, does not have internal coupling for automatic diaphragm lenses.

Introduced: 1956 (Currently in production)

Shutter Speeds: 1 to 1/1000 sec., plus B and self-timer.

Flash Sync: Factory installed. X up to 1/25, FP bulbs at all speeds.

Special Features: Eye-level focusing prism viewfinder interchangeable with accessory waist-level or microscopic eyepiece (adjustable for individual eyesight) viewfinders; separate direct optical finder; internal coupling for automatic diaphragm lenses; split image rangefinder focusing with prism or waist-level finders; double and blank exposure prevention; removable back; body shutter release.

Last List Price: With following automatic diaphragm lenses: 55mm, f/1.9 Steinheil Quinon, \$299.50; 58mm, f/2 Jena Biotar, \$297.50; 50mm, f/2.8 Jena Tessar, \$239.50



Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. "Praktina FX" engraved on front of camera, above lens mount; 2. Self-timer; 3. Internal coupling for automatic diaphragm lenses.

ROBOT

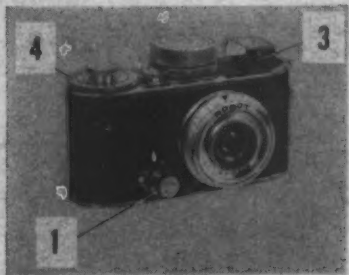
Manufacturer: Robot-Berning & Co., Dusseldorf, Germany

Importer: Intercontinental Marketing Corp., 251 Fourth Ave., New York 10, N. Y.

Film Size: All models except Royal 36 (24 x 36mm) take 24 x 24mm (1 x 1 in.) pictures on 35mm film. Earlier models accept only special Robot loading and take-up cassettes (for up to 50 exposures); later models accept standard 35mm cartridge films (for up to 55 exposures).

Lens: All models incorporate threaded lens mounts for interchangeability of lenses (Robot Royal has clip-in thread; lenses which fit this model do not fit the other versions). Various lens manufacturers, including Hugo Meyer, Schneider, and Carl Zeiss, have supplied lenses for the Robot; focal lengths range from 30mm to 150mm (200mm for Robot Royal).

Shutter: All models have rotary-blade, behind-lens, rapid sequence shutter.

ROBOT I

Introduced: 1934 **Discontinued:** 1938 **Shutter Speeds:** 1 to 1/500 plus T. **Flash Sync:** None. Not advisable to try to add sync.

Special Features: Built-in spring motor for transporting film, winding shutter, and operating exposure counter simultaneously; 24 pictures on one winding; zone focusing system; movable finder for direct and right-angle viewing; built-in yellow-green filter; lock for preventing accidental shutter release (in late version only). Note: Model I accepts darkroom-loading special Robot cassettes only. Two cassettes are used; the take-up cassette can be removed at any time for processing a partly exposed roll. Film cannot be rewound back into the film-loading cassette.

Last List Price: With 30mm, f/3.5 Meyer Primotar, \$109; with 32.5mm, f/2.8 Zeiss Tessar, \$139

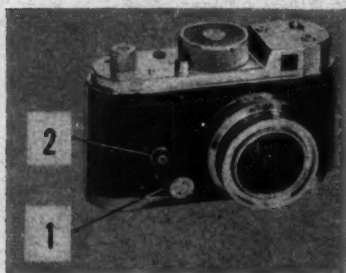
Last Reported Used Selling Price Range in 1957: With f/2.8 Tessar, \$34-\$49

Special Identification Points: 1. Only Robot model with slow shutter speed of 1 sec.; 2. No sync outlet on front; 3. Swiveling viewfinder; 4. Exposure counter calibrated from 1 to 24 (repeats itself for exposures 25 to 48, etc.).

ROBOT II

Introduced: 1938 **Discontinued:** 1950
Shutter Speeds: 1/2 to 1/500, plus B.
Flash Sync: Factory installed. M, up to 1/50. May be converted to X only.

Special Features: Adjustable viewfinder for direct or right-angle viewing (not movable, as in Model I); safety catch for shutter release; factory installed flash sync; uses Robot cassettes which can be loaded with



daylight-loading refills; exposure counter is part of camera body and is calibrated from 1 to 55. Other features same as Model I, but does not have built-in filter. Note: This model was available with double-spring for 48 pictures on 1 winding.

Last List Price: With 30mm, f/3.5 Zeiss Tessar, \$129; with 32.5mm, f/2.8 Tessar, \$144; with 40mm f/2 Zeiss Biotar, \$184. Note: Above cameras with double-spring motor sold for \$28 extra.

Last Reported Used Selling Price Range in 1957: With f/2 Biotar, \$50-\$71

Special Identification Points: 1. Slow shutter speeds down to only 1/2, instead of 1 sec. as on Model I; 2. Single flash contact on front of camera.

LW ROBOT

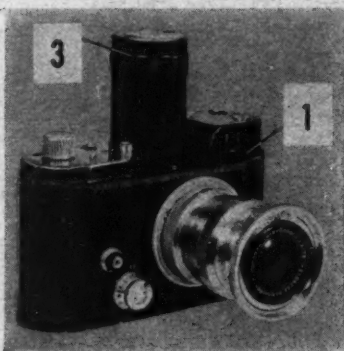
Note: This model is very similar to Model II, but came only in black enamel finish. It was supplied only with a double-spring motor for 48 pictures on one winding. Made for the German Air Force, only a limited number reached the market.

Introduced: 1940 **Discontinued:** 1945
Flash Sync: Same as Robot II.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/2 Xenon, \$40-\$62

Special Identification Points: 1. Came only in black finish; 2. "LW" pre-



cedes serial number, which is located inside camera body; 3. Extra long spring-motor housing.

ROBOT IIa

Note: This version was marketed in the U.S.A. by Burleigh Brooks, Inc. Introduced in 1951, it was taken off the American market in 1953, but is currently in production in Germany.

Shutter Speeds: 1/2 to 1/500, B.

Flash Sync: Factory installed, M and X. Double flash outlet on front of camera.

Special Features: Accepts standard 35mm cartridges as well as special Robot cassettes; accessory shoe. Other features same as Model II. Note: Model IIa was available with double-spring motor for 48 pictures on 1 winding.

Last List Price: With 37.5mm, f/2.8 Schneider Xenar, \$168.95; with



40mm, f/1.9 Schneider Xenon, \$209.50

Last Reported Used Selling Price Range in 1957: With f/1.9 Xenon, \$76-\$94

Special Identification Points: 1. Double flash contacts on front of camera; 2. No rewind handle.

ROBOT JUNIOR



Note: This is basically the same camera as Robot IIa, but does not have adjustment for right-angle viewing.

Introduced: 1955 (Currently in production)

Last List Price: With 40mm, f/3.5 Schneider Radionar, \$93.06; with 38mm, f/2.8 Schneider Xenar, \$115.15; with 40mm, f/1.9 Schneider Xenon, \$140.07

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Robot Junior nameplate; 2. No adjustment for right-angle viewing; 3. No rewind handles.

ROBOT STAR

Introduced: 1952 (Currently in production)

Shutter Speeds: 1/2 to 1/500, B.

Flash Sync: Factory installed, M & X.

Special Features: Accepts standard 35mm cartridges (does not take special Robot loading cassette, but does



accept take-up cassette); rewind handle for rewinding film back into cartridge. Other features same as Model IIa. Note: This model is available with double-spring motor for 48 pictures on one winding.

Last List Price: With 30mm, f/3.5 Schneider Xenagon, \$241; with 38mm, f/2.8 Xenar, \$217.50; with 40mm, f/1.9 Xenon, \$249.50

Last Reported Used Selling Price Range in 1957: With f/2 Biotar, \$90-\$124

Special Identification Points: 1. Rewind handle.

ROBOT ROYAL 24

Note: This model's proportions and design differ considerably from those of previous models. It embodies several new features, including a coupled rangefinder.

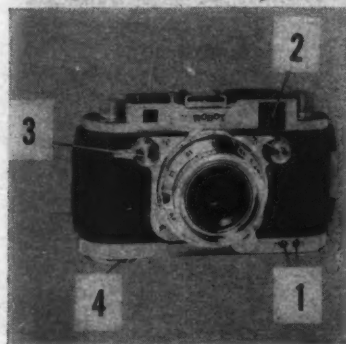
Introduced: 1953 (Currently in production)

Lens: Standard lenses are 30mm, f/3.5 Schneider Xenagon; 38mm f/2.8 Xenar; or 40mm, f/1.9 Xenagon. All of these lenses are factory coated and couple to the Royal's rangefinder. They have clip-in threads for quick interchangeability (cannot be used on earlier versions).

Shutter Speeds: 1/2 to 1/500 sec., B.

Flash Sync: Factory installed, M and X. Double flash outlet on front of base plate.

Special Features: Coupled rangefinder with combined range- and viewfinder eyepiece; built-in spring motor for transporting film, winding shutter, and operating exposure counter simultaneously; 24 pictures on one winding; additional setting



for automatic-sequence pictures at rate of 8 per second; film-type indicator; simplified film loading; accepts standard 35mm cartridges; rewind knob for rewinding film back into cartridge; safety lock for preventing accidental exposure; table-top support leg.

Last List Price: With 30mm, f/3.5 Schneider Xenagon, \$281.75; with 38mm, f/2.8 Xenar, \$255; with 40mm, f/1.9 Xenon, \$295

Last Reported Used Selling Price Range in 1957: With f/1.9 Xenon, \$175-\$205

Special Identification Points: 1. Flash contacts located on front of camera's base plate; 2. Built-in rangefinder; 3. Selector dial for regular or automatic-sequence pictures; 4. Spring-motor winding knob.

ROBOT ROYAL 36

Film Size: Up to 36 double frame (1 x 1 1/2 in.) pictures using standard cartridge films or special Robot cassettes.

Introduced: 1956 (Currently in production)

Lens: Interchangeable by means of clip-in threads (lens mount is same as in Robot 24). Standard lenses are factory coated 45mm, f/2.8 Schneider Xenar or 50mm, f/2 Zeiss Sonnar. Accessory lenses are factory coated 35mm, f/2.8 Schneider Xenagon or 75mm, f/4 Schneider Tele-Xenar.

Shutter Speeds: 1/2 to 1/500, plus B.

Flash Sync: Factory installed. Same as Robot 24.



Special Features: Built-in spring motor for transporting film, winding shutter, and operating exposure counter simultaneously for 10 pictures on one winding (unlike Robot 24, Robot 36 provides only single-shot operation; there is no provision for automatic "burst" operation). Other features same as Robot 24.

Last List Price: With 45mm, f/2.8 Schneider Xenar, \$229.95; with 50mm, f/2 Zeiss Sonnar, \$329.95

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Rectangular, instead of square viewfinder window as in Robot 24; 2. "Robot 36" engraved on front of camera; 3. No automatic-sequence selector dial.

VOIGTLANDER

Manufacturer: Voigtländer A. G., Braunschweig, Germany

Importer: H. A. Bohm & Co., 4761 W. Touhy Ave., Chicago 30, Ill.

Film Size: All models take up to 36 double frame (1 x 1 1/2 in.) pictures using standard 35mm cartridges.

VOIGTLANDER PROMINENT

Introduced: 1951 (Currently in production)

Lens: Interchangeable, by means of bayonet lens mount. (The interchangeable lenses fit Prominent

cameras with serial numbers higher than 8,500 without special adjustment.) Standard lenses are factory coated 50mm, f/3.5 Color-Skopar (no longer supplied with camera); f/2 Ultron; and 50mm, f/1.5 Nokton. Accessory lenses (all lenses without reflex housing couple with camera's rangefinder): 35mm, f/3.5 Skoparon wide-angle; 100mm, f/4.5 Dynaron telephoto; and 100mm, f/5.5 Telomar with reflex housing.

Shutter: Behind-the-lens Synchro-Compur 0, 1 to 1/500, B, self-timer.

Flash Sync: Factory installed. Early version had X only; later ones have M and X.

Special Features: Coupled coincidence-type rangefinder; coupled film transport and shutter winding mechanism; double and blank exposure prevention; exposure counter; device for changing partly exposed films; film indicator; built-in depth of field scale; body shutter release; accessory shoe (on latest model). Current model (introduced in 1957) has rapid wind film advance lever and brightline viewfinder.

Last List Price: With 50mm, f/3.5 Color-Skopar, \$157.50; with f/2 Ultron, \$229.50; with f/1.5 Nokton, \$279.50

Last Reported Used Selling Price Range in 1957: With f/2 Ultron, \$115-\$140

Special Identification Points: 1. Version supplied in early part of 1951 had Compur-Rapid shutter with X flash sync only; versions supplied in



second half of 1951 and after have Synchro-Compur with MX flash sync; 2. Earliest version had no accessory shoe; latest versions come with accessory shoe; 3. Current version has rapid wind film advance lever and brightline viewfinder.

VOIGTLANDER VITESSA (1950 model)

Introduced: 1950 Discontinued: 1951

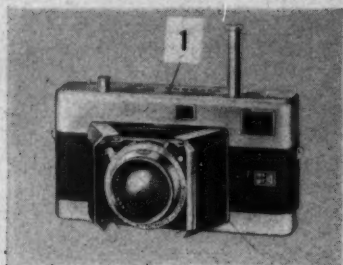
Lens: 50mm, f/2 Ultron.

Shutter: Compur-Rapid 00, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, X only.
Special Features: Quick-action "Combi-Plunger" for cocking shutter, advancing film, and operating exposure counter in one motion; coupled rangefinder with combined view- and rangefinder eyepiece; body shutter release; automatic parallax compensation; double exposure prevention.

Last List Price: \$157.50

Last Reported Used Selling Price Range in 1957: \$55-\$78



Special Identification Points: 1. Differentiated from 1951 model by not having accessory shoe; 2. Differentiated from all subsequent models by having only X, instead of MX, flash sync.

VOIGTLANDER VITESSA (1951 model)

Introduced: 1951 **Discontinued:** 1954

Lens: 50mm, f/2 Ultron.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X.
Special Features: Accessory shoe.

Other features same as 1950 model.

Last List Price: \$157.50

Last Reported Used Selling Price Range in 1957: \$60-\$90

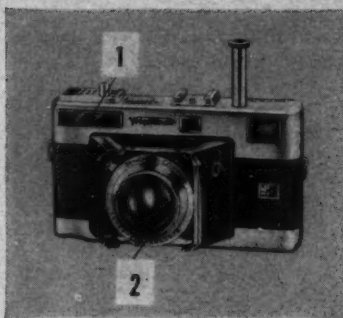
Special Identification Points: 1. Differentiated from 1950 model by having MX, instead of only X sync; 2. Differentiated from later models by not having self-timer.

VOIGTLANDER VITESSA L

Introduced: f/2, 1954; f/2.8, 1955
 (Currently in production)

Lens: 50mm, f/2 Ultron or f/2.8 Color-Skopar.

Shutter: Synchro-Compur, 1 to 1/500



sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Shutter incorporates

Light Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposures constant); built-in photoelectric exposure meter. Other features same as 1950 model.

Last List Price: With f/2 Ultron, \$159.59; with f/2.8 Color-Skopar, \$139.50

Last Reported Used Selling Price Range in 1957: With f/2 Ultron, \$89-\$109

Special Identification Points: 1. Differentiated from previous models by having built-in exposure meter; 2. Further differentiated by having shutter with Light Value Scale; 3. Fixed, non-interchangeable lens mount.

VOIGTLANDER VITESSA N

Introduced: 1954 (Currently in production)

Lens: 50mm, f/3.5 Color-Skopar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer. Note: Earliest version did not have shutter incorporating Light Value Scale; latest version has LVS.

Flash Sync: Factory installed, M & X.
Special Features: Shutter (in current model) incorporates Light Value Scale; accessory shoe. Other features same as 1950 model.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1957: \$54-\$63

Special Identification Points: 1. Comes only with f/3.5 lens; 2. Current version has LVS shutter.

VOIGTLANDER VITESSA T

Introduced: 1957 (Currently in production)

Lens: Interchangeable, by means of bayonet mount. Standard lens is 50mm, f/2.8 Color-Skopar. Accessory lenses are 35mm, f/3.4 Skoparet and 100mm, f/4.8 Dynaret, as well as 135mm lens.

Shutter: Synchro-Compur LVS, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Lens interchangeability; automatic depth of field indicator. Other features same as Vitessa L.

Last List Price: With 50mm, f/2.8 Color-Skopar, \$154.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Interchangeable lenses; 2. Built-in exposure meter.



Note: Illustration shows camera with accessory viewfinder.

VOIGTLANDER VITO I

Introduced: 1939 **Discontinued:** 1950
Lens: 50mm, f/3.5 Skopar or (in 1949 version) Color-Skopar.

Shutter: Prontor S, 1 to 1/300 sec., plus B and self-timer; Compur, 1 to 1/300 sec., plus B; or Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: Early versions had none. Can add Type 1 (see page 65). Later had X only.

Special Features: Hinged filter mount (in earliest version only); built-in

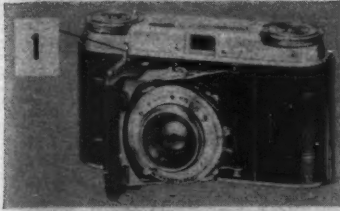


depth of field scale; automatic exposure counter; shutter release bar; double and blank exposure prevention; zone focusing settings.

Last List Price: With Compur shutter, \$61.25; with Compur-Rapid, \$61.25; with Prontor S, \$54.25

Last Reported Used Selling Price Range in 1957: With f/3.5 Skopar and Prontor S, \$21-\$32

Special Identification Points: 1. Shutter release bar instead of round plunger.

VOIGTLANDER VITO II

Introduced: 1950 **Discontinued:** 1955
Lens: Factory coated 50mm, f/3.5 Color-Skopar.

Shutter: Prontor S, SV or (in current Model) SVS, 1 to 1/300 sec., plus B and self-timer; Compur-Rapid or Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed. Those with Prontor S or Compur-Rapid had X only; with Prontor SV, SVS or Synchro-Compur, M and X.

Special Features: Device for changing partly exposed films; round shutter release plunger. Other features same as later version of Vito I.

Last List Price: With Prontor S, SV, or SVS (current) shutter, \$54.50; with Compur-Rapid or Synchro-Compur, \$61.25

Last Reported Used Selling Price Range in 1957: With Compur Rapid, \$31-\$40

Special Identification Points: 1. Round shutter release plunger instead of bar; 2. No built-in rangefinder; 3. Version introduced in 1951 has fixed film take-up spool.

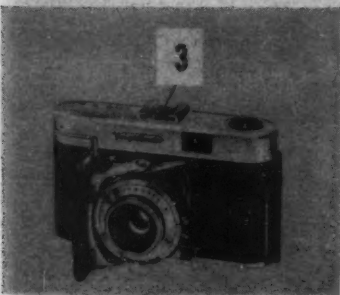
VOIGTLANDER VITO IIa

Introduced: 1955 (Currently in production)

Lens: Factory coated 50mm, f/3.5 Color-Skopar.

Shutter: Prontor SVS, 1 to 1/300 sec., plus B and self-timer, or Pronto, 1/25 to 1/200 sec., plus B and self-timer.

Flash Sync: Factory installed M and X in Prontor SVS; X at all speeds in Pronto.



Special Features: Rapid film advance lever; pull-out film rewinding knob; accessory shoe. Other features same as Vito II.

Last List Price: With Prontor SVS, \$54.50; with Pronto, \$45.50

Last Reported Used Selling Price Range in 1957: \$29-\$36

Special Identification Points: 1. Pull-up rewind knob; 2. Rapid film advance lever; 3. Accessory shoe.

VOIGTLANDER VITO III

Introduced: 1951 **Discontinued:** 1954

Lens: Coated 50mm, f/2 Ultron.



Shutter: Compur-Rapid or (in current model) Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Same as Vito II.

Special Features: Coupled rangefinder with single eyepiece for view-rangefinder; film-type indicator. Other features same as later version of Vito II.

Last List Price: With Compur-Rapid shutter, \$157.50; with Synchro-Compur (current), \$157.50

Last Reported Used Selling Price Range in 1957: \$57-\$99

Special Identification Points: 1. Coupled rangefinder.

VOIGTLANDER VITO B

Introduced: 1954 (Currently in production)

Lens: Factory coated 50mm, f/3.5 or f/2.8 Color-Skopar.

Shutter: With f/3.5 lens: Pronto, 1/25 to 1/200 sec., plus B and self-timer; or Prontor SVS (LVS in latest version), 1 to 1/300 sec., plus B and self-timer. With f/2.8 lens: Prontor SVS (LVS in latest version).

Flash Sync: Factory installed. With Pronto Shutter, X only. With Prontor SVS, M and X.

Special Features: Built-in depth of field scale; rapid film winder; body

shutter release; automatic exposure counter; zone focusing settings; film winding coupled to shutter cocking; double and blank exposure prevention; accessory shoe.

Last List Price: With f/3.5 lens: with Pronto shutter, \$45.50; with Prontor SVS (LVS in latest version), \$54.50. With f/2.8 lens and Prontor SVS shutter (LVS in latest version), \$68.75

Last Reported Used Selling Price Range in 1957: With f/3.5 lens and Pronto shutter, \$24-\$31

Special Identification Points: 1. Exposure counter located on front of camera; 2. Rigid lens mount, instead of bellows as in other Vito models; 3. No built-in exposure meter.

VOIGTLANDER VITO BL

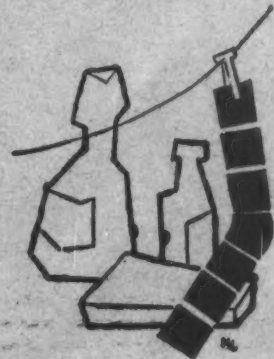
Note: This camera is similar to Vito B, but has the following differences: Built-in exposure meter (provides direct lens settings); bright frame viewfinder with 1 to 1 image. Shutter is Prontor SVS (LVS in latest version), 1 to 1/300 sec., plus B and self-timer.

Introduced: 1957 (Currently in production)

Last List Price: With 50mm Color-Skopar: f/3.5, \$77.50; f/2.8, \$89.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Built-in exposure meter; 2. Bright frame viewfinder with 1 to 1 image.



REFLEX CAMERAS, 2¼x2¼ AND SMALLER SIZES

REFLEX CAMERAS USING ROLL FILM have long been enthusiastically employed by photographers who like to frame their pictures on a bright ground glass—and who enjoy working with the comfortable negative size. Addition of built-in exposure meters and a wide range of flash sync are helping to make the small reflex increasingly popular. Introduction of an old film size—127—in color, along with a new Rolleiflex 4 x 4cm, herald an era of new popularity for a camera size which combines some of the virtues of 35mm and 2¼ reflex.

ANSCO

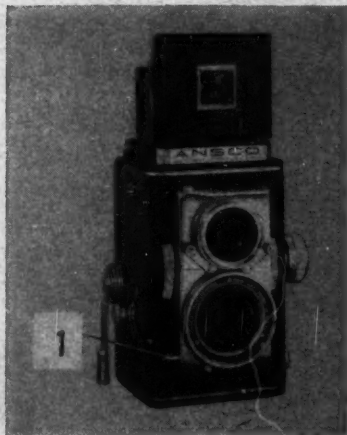
Manufacturer: Ansco, 40 Charles St., Binghamton, N. Y.
Film Size: All models take 12 pictures 2¼ x 2¼ on 120 film.

ANSCO AUTOMATIC REFLEX (1947)

Introduced: 1947 **Discontinued:** 1952
Lens: Factory coated 83mm, f/3.5
Anso Anastigmat; viewing lens f/3.2.
Shutter: Ansco, 1 to 1/400 sec., plus B.
Flash Sync: None. Can add Type 1 (X sync). See page 65.
Special Features: Eye-level focusing; built-in magnifying lens for critical focus; automatic film transport and exposure counter; double exposure prevention.
Last List Price: \$175
Last Reported Used Selling Price Range in 1957: \$50-\$76
Special Identification Points: 1. No factory installed sync.

ANSCO AUTOMATIC REFLEX (1949)

Introduced: 1949 **Discontinued:** 1952
Note: This camera is the same as the 1947 version, except for sync.
Flash Sync: Factory installed for Class F bulbs, 1/50 to 1/400; M up to 1/25. Can be changed to Type 1 (X sync). See page 65.

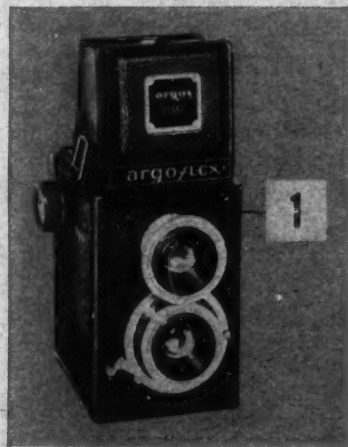


Last List Price: \$195
Last Reported Used Selling Price Range in 1957: \$58-\$85
Special Identification Points: 1. Factory installed sync.

ARGUS

Manufacturer: Argus Cameras, Division of Sylvania Electric Products, Inc., 405 Fourth St., Ann Arbor, Mich.
Film Size: All models take 12 pictures 2¼ x 2¼ on 620 film (Model E accepts either 120 or 620 film).

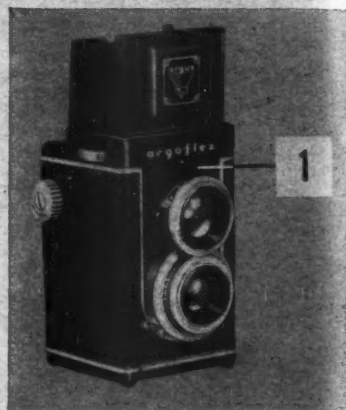
ARGOFLEX MODEL E



Introduced: 1940 **Discontinued:** 1948
Lens: 75mm f/4.5 Varex; viewing lens f/4.5. **Note:** Argoflex Model E cameras made after July, 1946 came with coated Varex lenses.
Shutter: Alphax, 1/10 to 1/200 sec., plus B & T.
Flash Sync: None. Add Type 1 (X sync). See page 65.
Special Features: Ground glass focusing; built-in magnifier; sports finder; built-in depth of field scale.
Last List Price: \$61.12
Last Reported Used Selling Price Range in 1957: \$15-\$22
Serial Numbers: 750,501 to 896,721
Special Identification Points: 1. Only Argoflex E series model with plastic body.

Note: Model CEW, known as the Wardflex, was made by Argus but sold by Montgomery Ward. It bears the same serial numbers as Model E, but has these differences: 1. f/6.3 instead of f/4.5 lens; 2. "Wardflex" instead of "Argoflex," marked on front of camera body.

ARGOFLEX MODEL EM



Introduced: 1948 **Discontinued:** 1948
Lens: Factory coated 75mm, f/4.5 Varex; viewing lens f/3.5.
Shutter: Alphax, 1/10 to 1/200 sec., plus B & T.
Flash Sync: None. Same as Model E.
Special Features: Metal body. Other features same as Model E.
Last List Price: \$64.40
Last Reported Used Selling Price Range in 1957: \$28-\$36
Serial Numbers: 10,439 to 13,591
Special Identification Points: 1. Has metal body; 2. No factory installed sync.

ARGOFLEX MODEL EF

Introduced: 1948 **Discontinued:** 1951
Lens: Factory coated 75mm, f/4.5 Varex; viewing lens f/3.5.
Shutter: Alphax, 1/10 to 1/200 sec., plus B & T.
Flash Sync: Factory installed. M up to 1/25, F-type bulbs (SM, SF) at all speeds.



Special Features: Same as Model EM.
Last List Price: \$58.74
Last Reported Used Selling Price Range in 1957: \$24-\$35
Serial Numbers: 2,506 to 30,520
Special Identification Points: 1. Factory installed sync (flash contact is on left side of camera).

ARGUS MODEL 40

Introduced: 1950 **Discontinued:** 1954
Lens: Factory coated 75mm, f/4.5 Varex.

Shutter: Between-the-lens, 1/25 to 1/150 sec., plus B.

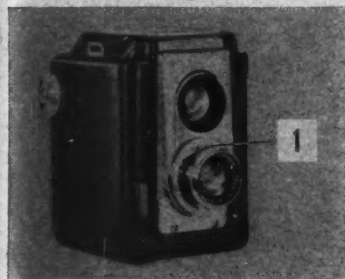
Flash Sync: Same as Model EF, above.

Special Features: Plastic body; factory installed sync; double exposure prevention; brilliant viewfinder; body shutter release; focusing lens mount; special shutter speed, lens, and distance settings color-coded for fixed-focus shooting of pictures under average conditions.

Last List Price: \$37.95

Last Reported Used Selling Price Range in 1957: \$14-\$22

Serial Numbers: None. Bears stamped



date of manufacture (1st two digits-year; last two digits-month).
Special Identification Points: 1. Focusing lens mount.

CIRO-FLEX

Manufacturer: Ciro Cameras, Inc.

Note: This camera is no longer manufactured.

Film: All models take 12 pictures on 120 roll film.

CIRO-FLEX MODEL B

Introduced: 1940 **Discontinued:** 1952
Lens: 85mm, f/3.5 Wollensak (Early version came with uncoated lens; later version had factory coated lens).

Shutter: Alphax, 1/10 to 1/200 sec., plus B and T.

Flash Sync: None. Add Type 1 (X sync). See page 65.

Special Features: Built-in magnifier; sports finder; built-in depth of field scale.

Last List Price: With coated lens, \$75.60

Last Reported Used Selling Price



Range in 1957: \$20-\$36

Special Identification Points: 1. No factory installed sync; 2. Alphax, instead of Rapax shutter as in C, E, and F.

Note: Early version came without field lens in ground glass focusing screen; later version came with field lens.

CIRO-FLEX MODEL C

Introduced: 1946 **Discontinued:** 1952
Lens: Factory coated 85mm, f/3.5 Wollensak.

Shutter: Rapax, 1 to 1/400 sec., plus B and T.

Flash Sync: None. Same as Model B.

Special Features: Built-in magnifier; sports finder; built-in depth of field scale.

Last List Price: \$97.65

Last Reported Used Selling Price Range in 1957: \$31-\$38

Special Identification Points: 1. No factory installed sync; 2. Rapax, instead of Alphax shutter as in B and D models.

Note: Early version came without field lens in ground glass focusing screen; later version came with field lens.

CIRO-FLEX MODEL D

Introduced: 1948 **Discontinued:** 1952
Note: This camera is same as Model B, except for flash sync.

Flash Sync: Factory installed. M up to 1/25, F-type bulbs at all speeds. No X. Can change to Type 1 (X sync). See page 65.

Last List Price: \$87.90

Last Reported Used Selling Price Range in 1957: \$28-\$47

CIRO-FLEX MODEL E

Introduced: 1948 **Discontinued:** 1952
Lens: Factory coated 85mm, f/3.5 Wollensak.

Shutter: Rapax, 1 to 1/400 sec., plus B and T.

Flash Sync: Factory installed. Same as Model D except for flash sync.

Special Features: Same as Model C.

Last List Price: \$117.55

Last Reported Used Selling Price Range in 1957: \$42-\$56

Special Identification Points: 1. Factory installed sync; 2. Rapax, instead of Alphax shutter as in B and D; 3. 85mm, f/3.5 lens, instead of 88mm, f/3.2.

Note: Early version came without field



lens in ground glass focusing screen; later version came with field lens.

CIRO-FLEX MODEL F

Introduced: 1949 **Discontinued:** 1952
Lens: Factory coated 88mm, f/3.2 Wollensak Raptar.

Shutter: Full Synchronic Rapax, 1 to 1/400 sec., plus B and T.

Flash Sync: Factory installed. M, F, and X at all speeds with adjustable time delay.

Last List Price: \$148.75



Last Reported Used Selling Price Range in 1957: \$54-\$76

EXAKTA

Manufacturer: Ihagee Kamerawerk A.G., Dresden, Germany

Importer: Exakta Camera Co., 705 Bronx River Road, Bronxville 8, N. Y.

VEST POCKET EXAKTAS

The following four cameras are known as the Vest Pocket Exaktas. **Film Size:** All models take 8 pictures 2 1/2 x 1 5/8 in. on 127 film.

Lens: All models except Exakta Junior incorporate threaded lens mounts for interchangeability of

lenses. Lenses for the V. P. Exaktas were supplied without focusing mounts since the camera lens-mount has a built-in helical focusing mount. Standard lens was 75mm, f/3.5 Zeiss Tessar or Schneider Xenar; 75mm, f/2.8 Tessar or Xenar; 80mm, f/2 Biotar or Xenon; or 75mm, f/3.5 Exaktar or Ihagee. Flash Sync: Type 1 (X sync) can be added to any Exakta listed which does not have this type. See page 65 for details.

EXAKTA MODEL A

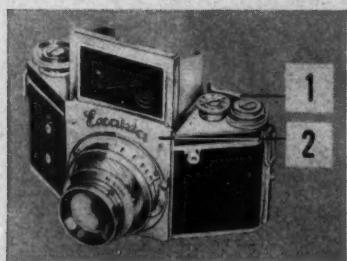
Note: This model is the same as Exakta Model B below, except for the shutter. Model A had shutter speeds only from 1/25 to 1/1000 sec., plus B & T, and had no delayed action. **Introduced:** 1936 **Discontinued:** 1945 **Flash Sync:** Same as Model B, below, except for a few from earliest production which had none. Type 1 (X sync) and/or Type 2 (with FP bulbs) can be added to these.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$33-\$49

Special Identification Points: 1. Was supplied only in black enamel finish; 2. No delayed action; 3. No slow speed dial.

EXAKTA MODEL B



Introduced: 1937 **Discontinued:** 1945 **Shutter:** Focal-plane, 12 to 1/1000 sec., plus B & T and delayed action (works with speeds from 6 to 1/1000).

Flash Sync: Factory installed, for FP bulbs; also M up to 1/25

Special Features: Film transport and shutter winding connected; sports finder; eye-level focusing; built-in magnifier.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/2 Biotar, \$74-\$91

Special Identification Points: 1. Early version had film transport knob; later version had film transport lever; 2. Early version came only in black enamel finish; later version was supplied with chrome finish.

EXAKTA JUNIOR

Introduced: 1936 **Discontinued:** 1945

Lens: 75mm, f/4.5 Anastigmat.

Shutter: Focal-plane, 1/25 to 1/1000 sec., plus B & T (no delayed action).

Flash Sync: Same as Model B.

Special Features: Other features same as Exakta Model A, but did not have interchangeable lens mount.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/3.5 Ihagee, \$21-\$35

EXAKTA MODEL C

Note: This model is the same as Exakta Model B, with the addition of a plate back adapter, for using plates or cut film with rear ground glass focusing. When the plate back is used, the reflex finder cannot be used for focusing or viewfinding.

Introduced: 1937 **Discontinued:** 1945

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/2.8 Tessar, \$43-\$64

Special Identification Points: 1. Only V. P. Exakta with provision for using plate back.

"SQUARE" EXAKTA

Note: This camera has the same shape as Exakta A, B, etc., but is considerably larger.

Introduced: 1937 **Discontinued:** 1938 **Film Size:** 12 pictures 2 1/4 x 2 1/4 on 120 film.

Lens: Interchangeable; bayonet mount. Standard lenses were 80mm, f/3.5 Zeiss Tessar or 85mm, f/3.5 Ihagee Anastigmat. **Note:** This camera was introduced just prior to the war; therefore no auxiliary lenses or special attachments have ever been supplied for it.

Shutter: Focal-plane, 12 to 1/1000 sec., plus B & T and self-timer (works with speeds from 6 to 1/1000).

Flash Sync: Same as Model B.

Special Features: Coupled film transport and shutter wind; sports finder; factory installed flash sync; exposure counter.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/2.8 Tessar, \$75-\$92

Special Identification Points: 1. Film transport lever situated on bottom of camera; 2. Same shape as previous Exaktas, but considerably larger.

EXAKTA 66

Introduced: 1954 (Currently in production)

Film Size: 12 pictures 2 1/4 x 2 1/4 on 120 film.

Lens: Interchangeable; bayonet

mount. Standard lens is factory coated 80mm, f/2.8 Zeiss Tessar with preset diaphragm and built-in lens hood. Accessory lenses are available in focal lengths from 56mm to 400mm.



Shutter: Focal-plane, 12 to 1/1000 sec., plus B & T and self-timer (works with speeds from 6 to 1/1000 sec.).

Flash Sync: Factory installed. Time delay adjustable 0 to 20 milliseconds. X type up to 1/50, FP bulbs at all speeds.

Special Features: Coupled film transport and shutter cocking; removable back with indentation for finger-hold; sports finder; removable reflex finder hood.

Last List Price: With 80mm, f/2.8 Tessar (preset diaphragm), \$319.50

Last Reported Used Selling Price Range in 1957: With f/2.8 Tessar, \$170-\$208

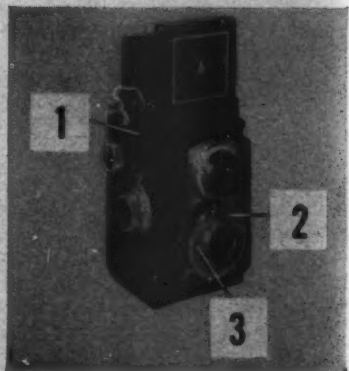
Special Identification Points: 1. Easily distinguishable from previous Exakta models by square shape; 2. Controls are located on side instead of top of camera.

GRAFLEX

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y.

Film: All models take 12 pictures on 120 film.

GRAFLEX "22" MODEL 200



Introduced: 1952 (Currently in production)

Lens: Factory coated 85mm, f/3.5 Graftar.

Shutter: Century, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/25, F to 1/100, X at all speeds.

Special Features: Factory installed MFX sync; built-in magnifier; field lens; built-in depth of field scale; sports finder; self-closing ruby window; shoe contact for flash.

Last List Price: \$74.50

Last Reported Used Selling Price Range in 1957: \$40-\$54

Special Identification Points: 1. Until July, 1953, was supplied only with black metal trim; after July, 1953, came only in bright metal trim; 2. Century shutter; 3. MFX flash sync.

GRAFLEX "22" MODEL 400

Introduced: 1952 **Discontinued:** 1956

Note: This model is identical with Model 200, except for the shutter. Model 400 has a Graphex, 1 to 1/400 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/25, F to 1/100, X at all speeds.

Last List Price: \$94.50

Last Reported Used Selling Price Range in 1957: \$60-\$78

Special Identification Points: 1. See # 1 for Model 200.

GRAFLEX "22" MODEL 400F

Introduced: 1952 **Discontinued:** 1955

Note: This model is identical with Model 400, except for the following differences: 1. Lens is 83mm, f/3.2 Optar; 2. Flash sync is fully adjustable.

Flash Sync: Factory installed. M, F, and X at all speeds, with adjustable time delay.

Last List Price: \$156.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. See # 1 for Model 200.

IKOFLEX

Manufacturer: Zeiss Ikon A.G., Stuttgart, Germany.

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take 12 pictures 2 1/4 x 2 1/4 on 120 film.

IKOFLEX MODEL 1 (Early version)

Introduced: 1932 **Discontinued:** 1935

Lens: 75mm, f/4.5 Zeiss Novar.

Shutter: Derval, 1/25 and 1/100 sec., plus B & T.

Flash Sync: None. Add Type 1 (X sync) only. See page 65.

Special Features: Built-in magnifier.

Last List Price: \$36

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Lever focusing, instead of knob focusing as in 1938 version; 2. Only Ikoflex model supplied with f/4.5 lens.

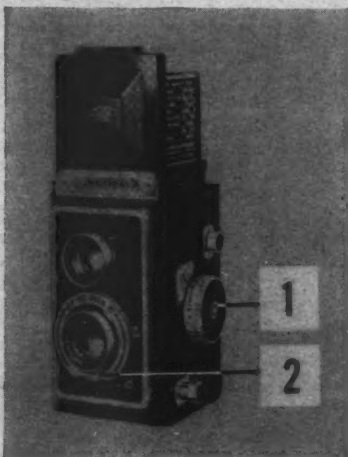
IKOFLEX MODEL 1 (1938 version)

Introduced: 1938 **Discontinued:** 1950

Lens: 75mm, f/3.5 Zeiss Novar, or factory coated 75mm, f/3.5 Zeiss Tessar; viewing lens f/3.5.

Shutter: Until 1939, came with Compur, 1 to 1/300 sec., plus B; after 1939 came with Klio, 1 to 1/250 sec., plus B.

Flash Sync: None. With Klio shutter, add Type 1 (X sync) only; with Compur, add Type 1 or 2 (M bulbs). See page 65.



Special Features: Built-in magnifier; parallax correction; double exposure prevention; built-in depth of field scale; body shutter release.

Last List Price: With Compur shutter and Novar lens, \$72; with Klio shutter and Novar lens, \$99; with Klio shutter and Tessar lens, \$120

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$30-\$49

Special Identification Points: 1. Knob focusing, instead of lever focusing as in earlier version; 2. Compur or Klio shutter.

IKOFLEX MODEL 1a

Introduced: 1952 **Discontinued:** 1956

Lens: Factory coated 75mm, f/3.5 Novar or Tessar; viewing lens f/3.5.

Shutter: Prontor SV, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: "Extrabrite" focusing screen; sports finder; magnifier; automatic exposure counter; automatic film stop; body shutter release; double exposure prevention.

Last List Price: With Novar lens, \$76; with Tessar, \$96



Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$47-\$66

Special Identification Points: 1. Supplied with Prontor shutter; 2. Does not have folding shutter release as in Model 1b.

IKOFLEX MODEL 1b

Note: This is an improved version of the earlier Ikoflex 1a. Differences are: Anti-reflection baffling in interior; magnifying lenses on shutter-speed and diaphragm windows; focusing hood opens and closes in single action; folding body shutter release; Prontor SVS, instead of SV shutter.

Introduced: 1956 (Currently in production)

Flash Sync: Factory installed. Same as Ikoflex 1a.

Last List Price: With Novar lens, \$99; with Tessar (current model comes only with Novar), \$119



Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Differentiated from Ikoflex 1a by having folding shutter release; 2. Differentiated from Ikoflex 1c by not having built-in exposure meter; 3. Model with Tessar lens discontinued in 1957.

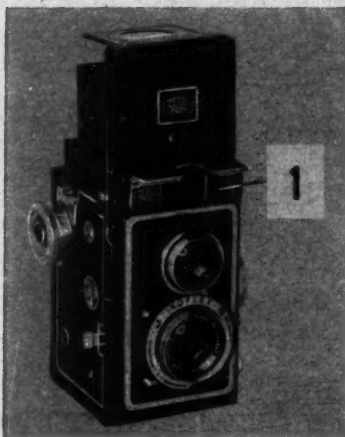
IKOFLEX MODEL 1c

Note: This model is the same as Iko-flex 1b, but has a built-in photo-electric exposure meter.

Introduced: 1956 (Currently in production)

Last List Price: With Novar lens, \$126; with Tessar, \$146

Last Reported Used Selling Price Range in 1957: Not available.



Special Identification Points: 1. Built-in exposure meter.

IKOFLEX MODEL II

Introduced: 1937 **Discontinued:** 1939

Lens: 75mm, f/3.5 Zeiss Tessar; viewing lens f/3.5.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. Same as Model I.

Special Features: Built-in magnifier; automatic film counter; automatic film stop; sports finder; double exposure prevention.

Last List Price: \$116

Last Reported Used Selling Price Range in 1957: \$45-\$54

Special Identification Points: 1. Early version had lever focusing; later version had knob focusing; 2. Exposure counter; 3. F/3.5 Tessar lens.

IKOFLEX MODEL IIa (Old model)

Introduced: 1950 **Discontinued:** 1952
Lens: Factory coated 75mm, f/3.5 Tessar; viewing lens f/3.5.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

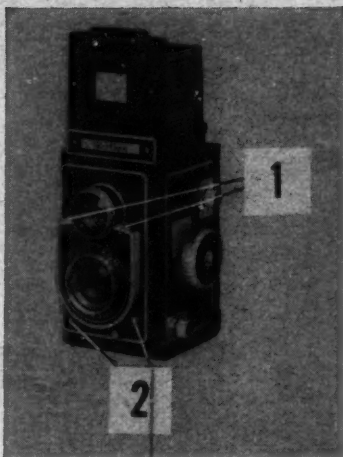
Flash Sync: Factory installed, X.

Special Features: Exposure counter; condenser lens under ground glass; automatic film stop; sports finder; double exposure prevention; built-in magnifier; body shutter release.

Last List Price: \$164

Last Reported Used Selling Price Range in 1957: \$57-\$78

Special Identification Points: 1. Peep windows on each side of viewing



lens; 2. F-stops and shutter speeds set by levers, instead of knurled wheels as in later version.

IKOFLEX MODEL IIa (Latest model)

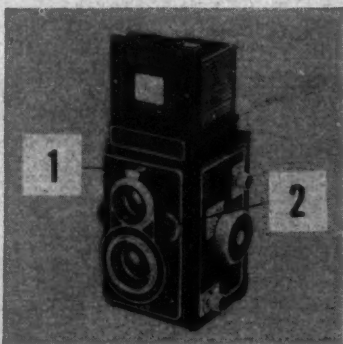
Introduced: 1953 **Discontinued:** 1956

Lens: Factory coated 75mm, f/3.5 Tessar; viewing lens f/3.5.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X.

Special Features: "Extrabrite" focusing screen; film transport coupled to shutter cocking; exposure counter; knurled wheels for setting f-stops and shutter speeds; sports finder; built-in magnifier; body shutter release.



Last List Price: \$126

Last Reported Used Selling Price Range in 1957: \$70-\$90

Special Identification Points: 1. Peep window located over viewing lens mount; 2. Knurled wheels located at sides of lens mount; 3. No LVS.

IKOFLEX FAVORIT

Introduced: 1957 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Tessar.

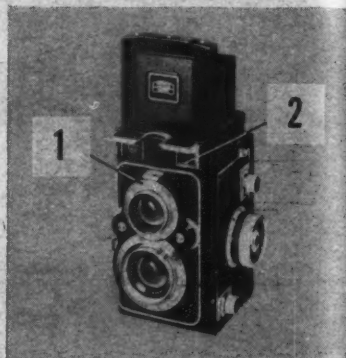
Shutter: Synchro-Compur MXV, 1 to 1/500 sec. plus B and self-timer, with LVS settings.

Flash Sync: Factory installed, M and X.

Special Features: Shutter incorporates Light Value Scale cross coupled to lens diaphragm; built-in photo-electric exposure meter with needle and scale visible in ground glass; film transport coupled to shutter cocking; "Extrabrite" focusing screen; exposure counter; film-type indicator; knurled wheels for setting f-stops and shutter speeds; sports finder; built-in magnifier; settings visible from above in magnified peep-window; folding body shutter release.

Last List Price: \$209

Last Reported Used Selling Price Range in 1957: Not available.



Special Identification Points: 1. LVS settings; 2. Built-in exposure meter.

IKOFLEX MODEL III

Introduced: 1939 **Discontinued:** 1940
Lens: 80mm, f/2.8 Zeiss Tessar; viewing lens f/2.8.

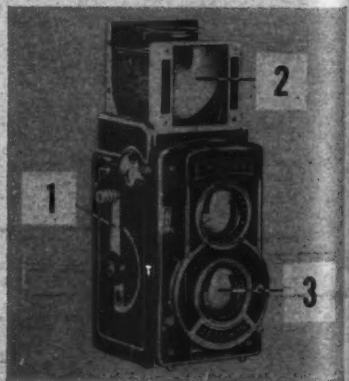
Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. Same as Model I.

Special Features: Built-in magnifier; parallax correction; built-in Albada sports finder; lever crank film transport coupled to shutter cocking; exposure counter; body shutter release.

Last List Price: \$219

Last Reported Used Selling Price Range in 1957: \$64-\$86



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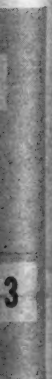
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Special Identification Points: 1. Only Ikoflex model with film transport crank lever; 2. Only Ikoflex model supplied with Albada sports finder; 3. Made only with f/2.8 lens.

MINOLTA

Manufacturer: Chiyoda Kogaku Seiko Co., Ltd., Osaka, Japan

Importer: Chiyoda Kogaku Seiko Co., Ltd., 150 Broadway, New York 38, N. Y.

Film Size: All models take 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

MINOLTACORD

Introduced: 1954 **Discontinued:** 1956
Lens: Factory coated 75mm, f/3.5 Promar SIII.

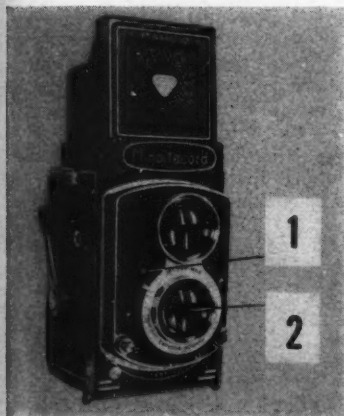
Shutter: Optiper MXS, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Lever-operated film transport; automatic film stop; lever focusing; automatic film counter; built-in magnifier; sports finder; body shutter release; accessory shoe.

Last List Price: \$69.50

Last Reported Used Selling Price Range in 1957: \$39-\$49



Special Identification Points: 1. Shutter-cocking lever; 2. Promar, instead of Rokkor lens as in Minolta Autocord.

MINOLTA AUTOCORD MODEL I-O

Introduced: 1955 **Discontinued:** 1956
Lens: Factory coated 75mm, f/3.5 Rokkor.

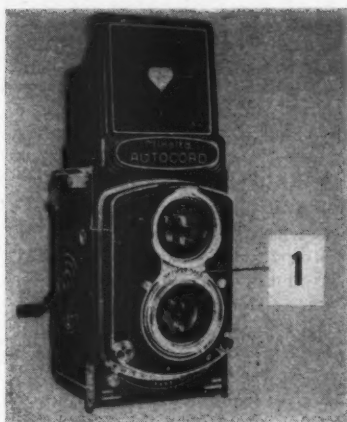
Shutter: Optiper MXS, 1 to 1/400, plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Film transport coupled to shutter cocking (double exposure prevention); provision for intentional double exposure. Other features same as Minoltacord.

Last List Price: \$99.50

Last Reported Used Selling Price



Range in 1957: \$51-\$68

Special Identification Points: 1. Differentiated from Minolta Autocord Models I-S and L by having Optiper instead of Seikosha shutter; 2. No Light Value Scale.

MINOLTA AUTOCORD MODEL I-S

Introduced: 1956 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Rokkor.

Shutter: Seikosha MFX, 1 to 1/500, plus B.

Flash Sync: Factory installed, M, F, and X.

Special Features: Shutter incorporates LVS single number exposure system, but without cross-coupling of shutter and lens diaphragm (operation depends on addition of two numbers, one from shutter speed control scale located to left of lens, one from f-number control scale located to right of lens); condenser lens under ground glass; shutter-set signal. Other features same as Minolta Autocord Model I-O.

Last List Price: \$99.50



Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Differentiated from Minolta Autocord

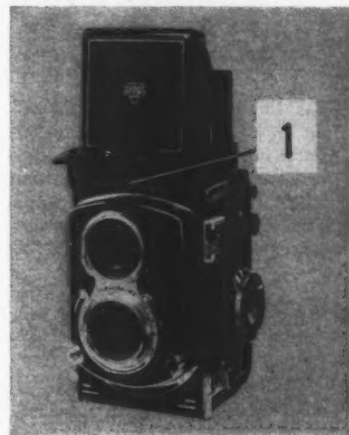
I-O by having Seikosha, instead of Optiper shutter; 2. Further differentiated by having LVS single number exposure system.

MINOLTA AUTOCORD MODEL L

Note: This camera is the same as Minolta Autocord Model I-S, but has a built-in photoelectric exposure meter.

Introduced: 1956 (Currently in production)

Last List Price: \$124.50



Last Reported Used Selling Price Range in 1957: \$54-\$82

Special Identification Points: 1. Built-in exposure meter.

ROLLEICORD

Manufacturer: Franke & Heidecke, Braunschweig, Germany

Importer: Burleigh Brooks, Inc., 10 W. 46 St., New York 36, N. Y.

Film size: All models of Rolleicord take 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film. Model Va has system of interchangeable counter mechanisms and masks for total of 5 formats (see Model Va description).

ROLLEICORD MODEL I

Introduced: 1933 **Discontinued:** 1935

Lens: 75mm, f/4.5 Zeiss Triotar; viewing lens f/3.2. **Note:** Version introduced in 1934 had f/3.8 Triotar taking lens.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

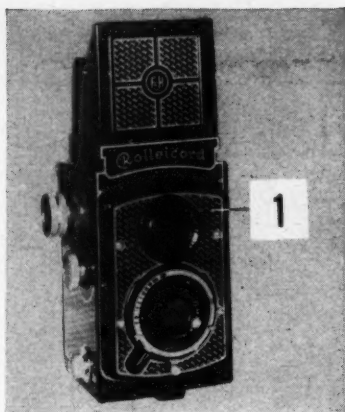
Flash Sync: None. Add Type 1 (X sync). See page 65.

Special Features: Exposure counter (1st exposure must be set in red window); sports finder; built-in magnifier.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1957: With f/4.5 Triotar, \$19-\$35

Serial Numbers: None.



Special Identification Points: 1. Before 1934, came only with all nickel plated body; after 1934, was supplied only with leather-covered body; 2. No automatic film stop; 3. Only Rolleicord with exposure counter on left side of camera.

ROLLEICORD IA

Introduced: 1935 **Discontinued:** 1941

Lens: 75mm, f/4.5 or f/3.8 Zeiss Triotar; viewing lens f/3.2.

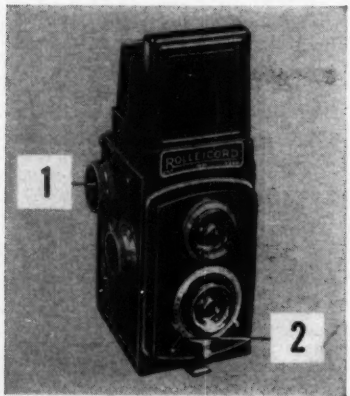
Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. Add Type 1 (X sync). See page 65.

Special Features: Accepts plate and 35mm film adapters. Other features same as Rolleicord Model I, 1934 version.

Last List Price: \$91

Last Reported Used Selling Price Range in 1957: With f/3.8 Triotar, \$27-\$40



Special Identification Points: 1. Automatic film stop; 2. Rim-set shutter (no peep windows).

ROLLEICORD II

Introduced: 1938 **Discontinued:** 1951

Lens: 75mm, f/3.5 Zeiss Triotar; viewing lens f/3.2. Note: Version introduced in 1950 had factory coated

f/3.5 Zeiss Triotar or Schneider Xenar lens.

Shutter: Compur, 1 to 1/300 sec., plus B & T. Note: Version introduced in 1945 had Compur-Rapid shutter, 1 to 1/500 sec., plus B; version introduced in 1950 had same shutter and factory installed flash sync.

Flash Sync: Factory installed, X.

Special Features: Bayonet mount for lens accessories (early versions had bayonet mount on taking lens only, later versions on both viewing and taking lenses); eye-level focusing. Other features same as Model IA.

Last List Price: With uncoated Triotar f/3.5 lens and either Compur or Compur-Rapid shutter, \$118; with coated Triotar lens in flash sync Compur-Rapid, \$140; with coated Xenar lens in flash sync Compur-Rapid, \$160



Last Reported Used Selling Price Range in 1957: With f/3.5 Triotar, \$33-\$49

Serial Numbers: 612,000 to 1,135,999

Special Identification Points: 1. Eye-level focusing; 2. Film window; 3. From 1939 to 1950, came without factory installed flash sync.

ROLLEICORD III

Introduced: 1950 **Discontinued:** 1953

Lens: Factory coated 75mm, f/3.5 Zeiss Triotar or Schneider Xenar; viewing lens f/3.2

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, X.

Special Features: Built-in magnifier covering entire ground glass image; automatic film feeding (not necessary to set 1st exposure in red window, which is eliminated). Other features same as Model II.

Last List Price: With Triotar lens, \$139.50; with Xenar, \$149.50

Last Reported Used Selling Price Range in 1957: With f/3.5 Xenar, \$50-\$82

Serial Numbers: 1,137,000 to 1,344,050

Special Identification Points: 1. First



Rolleicord without film window; 2. Back latch has safety lock.

ROLLEICORD IV

Introduced: 1953 **Discontinued:** Jan., 1955

Lens: Factory coated 75mm, f/3.5 Schneider Xenar; viewing lens f/3.2

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X.

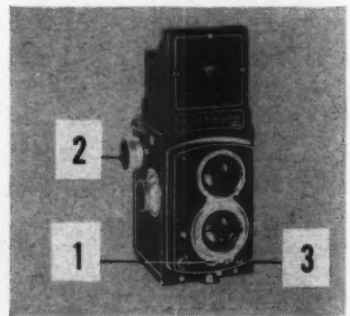
Special Features: Double and blank exposure prevention; provision for intentional double exposures; anti-reflection baffling in interior. Other features same as Model III.

Last List Price: \$149.50 (incl. case).

Last Reported Used Selling Price

Range in 1957: \$64-\$93

Serial Numbers: 1,344,051 to 1,390,999



Special Identification Points: 1. First Rolleicord with MX selection lever; 2. No release button in film transport knob; 3. Cable release socket positioned beneath taking lens.

ROLLEICORD V

Introduced: 1955 **Discontinued:** 1957

Lens: Factory coated 75mm, f/3.5 Schneider Xenar; viewing lens f/3.2

Shutter: Synchro-Compur LVS, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

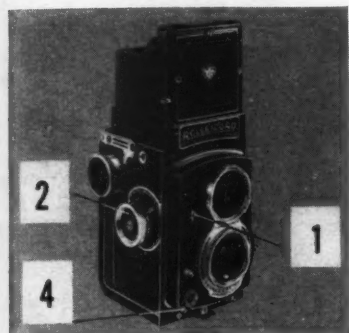
Special Features: Shutter incorporates Light Value Scale cross-coupled to

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lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposures constant); factory installed flash sync; double and blank exposure prevention with provision for making intentional double exposures; large focusing knob with built-in film-speed indicator; built-in depth of field scale; 2.5 times viewing magnifier; sports finder; automatic parallax compensation; automatic exposure counter; Light Value table on back of camera; film positions for correct starting before closing back; single lever for cocking and releasing shutter; focuses from 3 ft. to infinity with one revolution of focusing knob; lock for flash contact.

Last List Price: \$149.50 (incl. case)

Last Reported Used Selling Price



Range in 1957: \$75-\$110

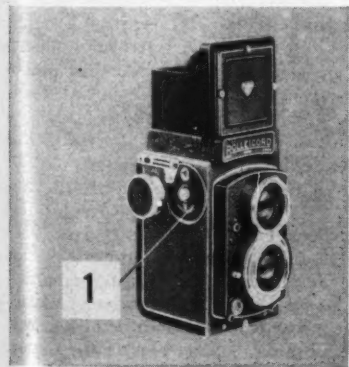
Serial Numbers: From 1,500,000

Special Identification Points: 1. MXV selector lever (V is self-timer position); 2. Built-in film-speed indicator; 3. Light Value Scale; 4. Lever for releasing flash contact lock.

ROLLEICORD V_a

Introduced: 1957 (Currently in production)

Film Size: 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film. System of accessory interchangeable counter mechanisms and masks for 16 pictures $1\frac{5}{8} \times 2\frac{1}{8}$ or $1\frac{5}{8} \times 1\frac{5}{8}$ and 24 pictures $1 \times 1\frac{1}{2}$ (35mm) or $1\frac{1}{8} \times 1\frac{5}{8}$ (Bantam), all on 120 film.



Lens: Same as Rolleicord V.

Shutter: Same as Rolleicord V.

Flash Sync: Same as Rolleicord V.

Special Features: Large focusing knob located on left side of camera; pressure plate adjustable for 120 or 35mm (used with Rolleikin adapter) film. Other features same as Rolleicord V.

Last List Price: With standard, 12 exposure counter and case, \$139.50

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. Interchangeable exposure counter; 2. Focusing knob located on left side of camera.

ROLLEIFLEX

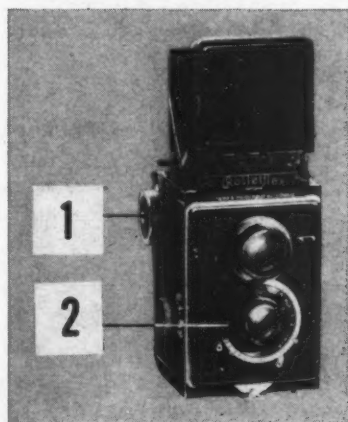
Manufacturer: Franke & Heidecke, Braunschweig, Germany

Importer: Burleigh Brooks, Inc., 10 W. 46th St., New York 36, N. Y.

Film Size: All 6 x 6cm Rolleiflex cameras except Original Rolleiflex take 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film. Note: A few over-sized cameras taking 9 x 9cm pictures on 122 film were made. There were also two 4 x 4cm models.

Flash Sync: Type 1 (X sync) can be added to any non-sync Rolleiflex. See page 65 for details.

ROLLEIFLEX, ORIGINAL MODEL



Introduced: 1929 **Discontinued:** 1932
Film Size: 6 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on B1 (117) film (some were converted to take 12 pictures on 620 film).

Lens: 75mm, f/4.5 Zeiss Tessar; viewing lens f/3.1. Note: Version B introduced in April, 1929 had 75mm, f/3.8 Tessar taking lens.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. See note above.

Special Features: Eye-level focusing; built-in magnifier.

Last List Price: With f/4.5 Tessar, \$75; with f/3.8 Tessar, \$85

Last Reported Used Selling Price Range in 1957: With f/3.8 Tessar, \$20-\$39

Serial Numbers: To 200,000

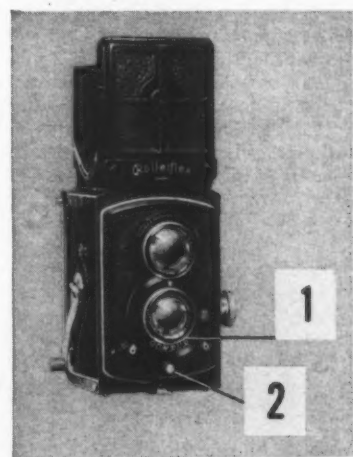
Special Identification Points: 1. Made only with film winding knob, instead of lever crank; 2. Made only with rim-set shutter (no peep window); 3. Only Rolleiflex model without film counter (red window must be used).

ROLLEIFLEX STANDARD (Old)

Introduced: 1932 **Discontinued:** 1937

Lens: 75mm, f/4.5 or f/3.8 Zeiss Tessar; viewing lens f/3.1

Shutter: Compur, 1 to 1/300 sec., plus B & T. Note: Version introduced in 1934 had Compur-Rapid, 1 to 1/500 sec., plus B.



Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Parallax correction; built-in sports finder; lever crank film transport; exposure counter (1st exposure must be set in red window); built-in magnifier; peep windows for lens stops and shutter speed settings; accepts plate or 35mm adapters, other accessories.

Last List Price: With f/4.5 or f/3.8 Tessar, \$125

Last Reported Used Selling Price Range in 1957: With f/3.8 Tessar, \$20-\$40

Serial Numbers: 200,000 to 567,550

Special Identification Points: 1. Made only with lens mount accepting push-on accessories; 2. Only 6 x 6cm Rolleiflex with single lever for tensioning and releasing shutter; 3. Only 6 x 6cm Rolleiflex with 2 film windows.

ROLLEIFLEX AUTOMAT 1937

Introduced: 1937 **Discontinued:** 1949

Lens: 75mm, f/3.5 Zeiss Tessar. Note: Version introduced in 1945 came

with either Tessar or Schneider Xenar f/3.5 lens. Viewing lens (all versions) f/2.8

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Rolleiflex section.

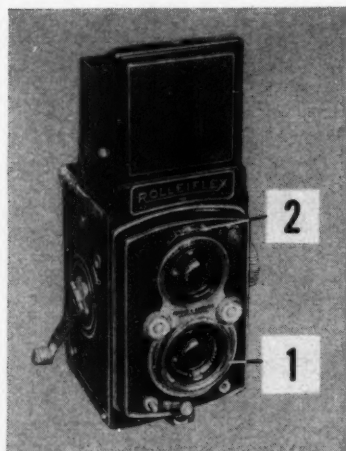
Special Features: Eye-level focusing; film transport coupled to shutter cocking (double exposure prevention); automatic film feeding (not necessary to set 1st exposure in red window, which is eliminated); knurled wheels for setting lens stops and shutter speeds; body shutter release; built-in magnifier; parallax correction; peep windows for lens stops and shutter speed settings.

Last List Price: With Xenar lens, \$220; with Tessar, \$250

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$65-\$84

Serial Numbers: 480,000 to 1,000,000

Special Identification Points: 1. From 1937 to 1939, made with bayonet mount on taking lens only; after 1939, made with bayonet mounts on both viewing and taking lenses; 2.



Only Rolleiflex Automat with B and T shutter settings; 3. Only Rolleiflex Automat lacking sports finder.

ROLLEIFLEX STANDARD (New)

Introduced: 1939 **Discontinued:** 1941
Lens: 75mm, f/3.5 Zeiss Tessar; viewing lens f/3.1

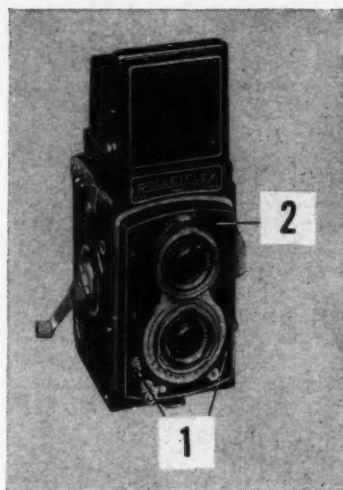
Shutter: Compur-Rapid, 1 to 1/500 sec., plus B (no T or self-timer).

Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Film transport coupled with shutter cocking (1st exposure must be set in red window). Other features same as Automat 1937.

Last List Price: \$185

Last Reported Used Selling Price Range in 1957: \$38-\$51



Serial Numbers: 805,000 to 927,999

Special Identification Points: 1. Lens stops and shutter speeds set by levers, instead of knurled wheels; 2. No self-timer.

ROLLEIFLEX AUTOMAT 1949

Introduced: 1949 **Discontinued:** 1951

Lens: Factory coated 75mm, f/3.5 Zeiss Tessar or Schneider Xenar. Viewing lens f/2.8. Note: Factory coated lenses have following marks engraved on lens mount; Zeiss: "T"; Schneider: Δ in red.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, X.

Special Features: Sports finder. Other features same as Automat 1937.

Last List Price: With Xenar lens, \$235; with Tessar, \$275

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$96-\$120



Serial Numbers: 1,100,000 to 1,168,000

Special Identification Points: 1. Made only with X type sync (no lever for selecting M or X type sync).

ROLLEIFLEX AUTOMAT 1951

Introduced: 1951 **Discontinued:** 1954

Lens: Factory coated 75mm, f/3.5 Tessar or Xenar; viewing lens f/2.8

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B and self-timer.

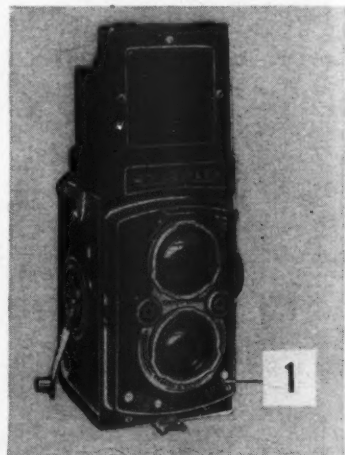
Flash Sync: Factory installed, M & X.

Special Features: Built-in magnifier showing entire ground glass image. Other features same as Automat 1949.

Last List Price: With Xenar lens, \$219.50; with Tessar, \$239.50

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$115-\$152

Serial Numbers: From 1,100,000 to 1,427,999



Special Identification Points: 1. Lever for selecting M or X type sync.

ROLLEIFLEX AUTOMAT 1954

Introduced: 1954 **Discontinued:** 1956

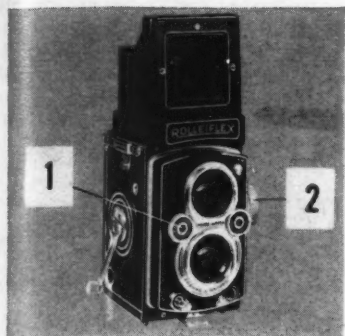
Lens: Factory coated 75mm, f/3.5 Schneider Xenar or Zeiss Tessar; viewing lens f/2.8.

Shutter: Synchro-Compur "Light Value System," 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Shutter incorporates Light Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposure constant); shutter cocking and self-timer tensioning coupled to film transport; double and blank exposure prevention with provision for making intentional double exposures; exposure table with "Light Values" on back of camera; body shutter release with safety lock; extra large focusing knob with built-in film-type indicator; eye-level focusing; built-in magnifier; sports finder; built-in feeler mechanism for easy film loading; self-locking safety hinge on camera

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back; automatic exposure counter; lever-crank film transport.

Last List Price: With 75mm, f/3.5 Xenar, \$234.50; with 75mm, f/3.5 Tessar, \$249.50 (prices include case).

Last Reported Used Selling Price Range in 1957: With f/3.5 Xenar, \$140-\$174

Serial Numbers: 1,428,000 to 1,739,999

Special Identification Points: 1. Light Value Scale; 2. Extra large focusing knob with film-type indicator.

ROLLEIFLEX AUTOMAT f/2.8, 1950

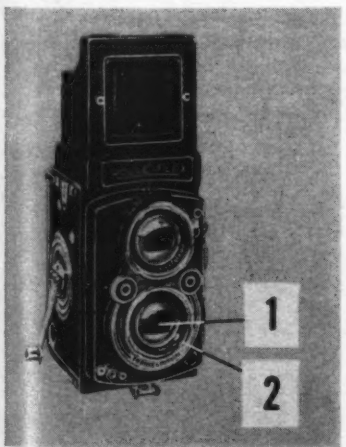
Introduced: 1950 **Discontinued:** 1953

Lens: Factory coated 80mm, f/2.8 Zeiss Tessar; viewing lens f/2.8. Note: B version with 5-element 80mm, f/2.8 Zeiss Biometar lens may occasionally be found.

Shutter: Compur-Rapid, 1 to 1/400 or 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed. Early ones had X only; late version had M and X. See serial numbers, below.

Special Features: Same as Automat 1949



Last List Price: With X-type sync, \$325; with MX sync, \$345

Last Reported Used Selling Price Range in 1957: With X shutter, \$124-\$160

Serial Numbers: From 1,101,000, X sync; from 1,201,000, MX sync.

Special Identification Points: 1. Only Rolleiflex supplied with Zeiss Tessar f/2.8 lens; 2. Has larger diameter lens bayonet mount requiring special size lens accessories.

ROLLEIFLEX AUTOMAT f/2.8C

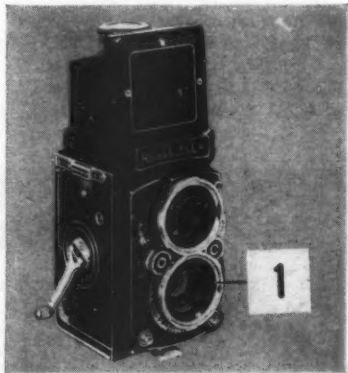
Introduced: 1953 **Discontinued:** 1956

Lens: Factory coated 5-element 80mm, f/2.8 Schneider Xenotar or Zeiss Planar; viewing lens f/2.8.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Provision for intentional double exposures; built-in film-speed and film-type indicator in focusing knob; safety locks on flash outlet and on lens stop and shutter speed wheels; built-in 35mm exposure counter; adjustable magnifier; lever-locking tripod base; safety film knobs; ribbed baffled interior for protecting film against internal reflections. Other features same as 1950 Automat f/2.8.



Last List Price: \$309.50 (including case).

Last Reported Used Selling Price Range in 1957: \$170-\$200

Serial Numbers: Not available.

Special Identification Points: 1. Xenotar or Planar lens; 2. No LVS system.

ROLLEIFLEX AUTOMAT 2.8D

Note: This camera is similar to Rolleiflex Automat 2.8C, but has the following differences: Shutter incorporates Light Value Scale cross-coupled to lens diaphragm; shutter release lock made of metal, instead of plastic; single lever selects M or X sync and sets self-timer; film spool knobs remain in retracted position until pushed in, instead of having to be held out.

Introduced: 1955 **Discontinued:** 1956

Last List Price: With 80mm, f/2.8 Schneider Xenotar or Zeiss Planar, \$289.50 (including case).

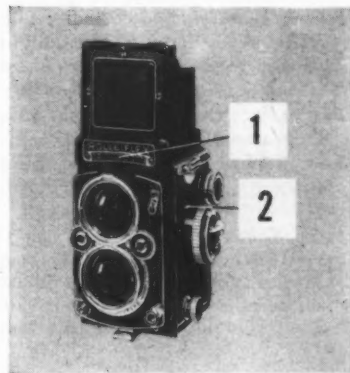
Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: 1,600,000 to 1,620,999

Special Identification Points: 1. Light Value Scale; 2. No provision for built-in exposure meter, as in later Automat 2.8E.

ROLLEIFLEX AUTOMAT 2.8E

Note: This camera is similar to Rolleiflex Automat 2.8D, but has the



following differences: Camera comes with built-in double scale exposure meter, or with provision for simple installation of unit; depth of field indicator, coupled to lens diaphragm, automatically shows depth of field as focusing distance or f-stops are changed.

Introduced: 1957 (Currently in production)

Last List Price: With Xenotar or Planar lens, including case: with exposure meter, \$349.50; less meter, \$309.50

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: From 1,621,000

Special Identification Points: 1. Built-in exposure meter or provision for installation; 2. Automatic depth of field indicator.

ROLLEIFLEX AUTOMAT 3.5 II

Note: This camera is similar to Rolleiflex Automat 2.8E, but has 75mm, f/3.5 Schneider Xenotar or Zeiss Planar lens.

Last List Price: With Xenotar or Planar lens, including case: with exposure meter, \$289.50; less meter, \$249.50

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: From 1,740,000

Special Identification Points: 1. 75mm, f/3.5 Xenotar or Planar lens.

ROLLEIFLEX SPORTS MODEL, 1931

Introduced: 1931 **Discontinued:** 1938

Note: First few models were called "Babyflex." This camera is often called the 4 x 4cm Rolleiflex.

Film Size: Takes 12 pictures $1\frac{1}{8} \times 1\frac{1}{8}$ on 127 film.

Lens: 60mm, f/3.5 or f/2.8 Zeiss Tessar. Viewing lens f/2.8. Note: After 1934, was supplied only with f/2.8 Tessar taking lens.

Shutter: Compur, 1 to 1/300 sec., B & T. Note: Version introduced in 1934 had Compur-Rapid shutter, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Rolleiflex section.

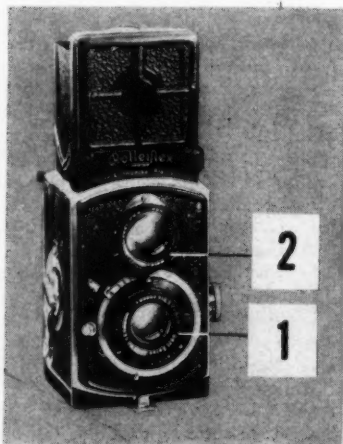
Special Features: Sports finder; film transport by lever crank; built-in magnifier; exposure counter (1st exposure must be set in red window).

Last List Price: With f/3.5 lens, \$106.50; with f/2.8 lens, \$122

Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$27-\$42

Serial Numbers: 200,000 to 600,000

Special Identification Points: 1. From 1931 to 1933, came only with rim-set shutter; after 1933, had peep windows, and levers for setting lens



stops and shutter speeds; 2. Made only with lens mount accepting push-on accessories.

ROLLEIFLEX SPORTS MODEL, 1938

Introduced: 1938 **Discontinued:** 1941
Film size: Takes 12 pictures $1\frac{1}{8} \times 1\frac{1}{8}$ on 127 film.

Lens: 60mm, f/2.8 Zeiss Tessar; viewing lens f/2.8.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

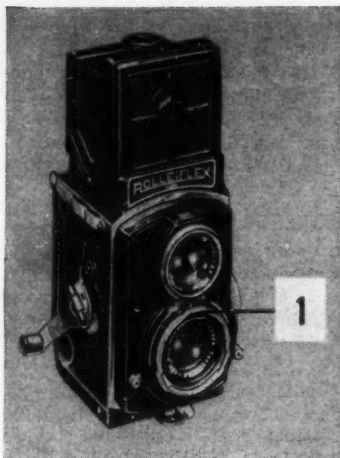
Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Taking lens accepts bayonet mount accessories. Other features same as Sports Rolleiflex-1934.

Last List Price: \$148.50

Last Reported Used Selling Price Range in 1957: \$53-\$68

Serial Numbers: 622,000 to 733,000



Special Identification Points: 1. Bayonet mount on taking lens.

ROLLEIFLEX 4 x 4cm, 1957

Introduced: 1957 (Currently in production)

Film Size: Takes 12 pictures $1\frac{1}{8} \times 1\frac{1}{8}$ on 127 film.

Lens: Factory coated 60mm, f/3.5 Schneider Xenar. Viewing lens f/2.8.

Shutter: Synchro-Compur LVS, 1 to 1/500 sec., Plus B.

Flash Sync: Factory installed, M & X.

Special Features: Film transport

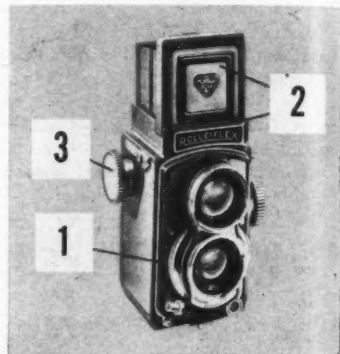
coupled to shutter cocking (double exposure prevention); shutter incorporates Light Value Scale cross-coupled to lens diaphragm; rapid folding one-motion hood; sports finder; base plate accepts quick mounting Rollei accessories; full-field $4\frac{1}{2}X$ built-in magnifier replaceable to suit individual eyesight.

Last List Price: \$149.50 (including case).

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. LVS scale; 2. Two-tone gray finish; 3. Film transport knob, instead of lever, as in 1938 version.



FOLDING ROLL FILM CAMERAS

JUST WHEN MANY PEOPLE were nodding wisely that the folding camera was ready to take its place on the shelf next to the Gramophone and the five-cent cigar—along came the Polaroid, pictures in a minute, and a new lease on life for an old and versatile camera style. Among conventional, pictures-from-the-processor, types there are a few new models in production, featuring fast lenses, built-in exposure meters, and unequalled compactness for the negative size they produce. Widely available from used camera dealers: older model folding cameras of fine quality at very modest prices.

ANSCO

Manufacturer: Ansco, 40 Charles St., Binghamton, N. Y.

Film Size: All models described below take 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

ANSCO SPEEDEX

Introduced: 1951 **Discontinued:** 1956

Lens: Factory coated 85mm, f/4.5

Agnar.

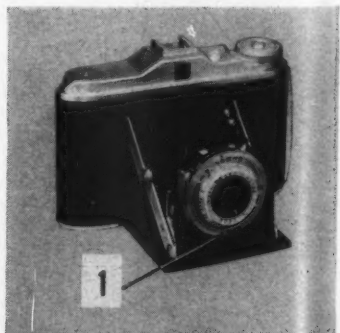
Shutter: Vario, 1/25 to 1/200 sec. or

open flash; X at all speeds.

Special Features: Optical eye-level viewfinder; zone focusing settings; accessory shoe.

Last List Price: \$29.50

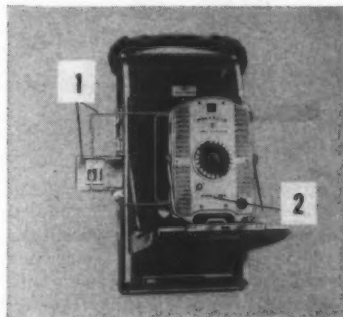
Last Reported Used Selling Price Range in 1957: \$15-\$21



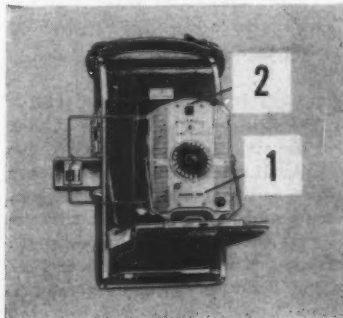
Special Identification Points: 1. Vario shutter; 2. No rangefinder.

ANSCO SPEEDEX SPECIAL

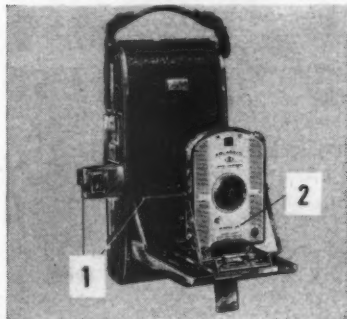
Introduced: 1951 (Currently in production)

POLAROID LAND SPEEDLINER (Model 95A)**Introduced:** 1954 **Discontinued:** 1957**Film Size:** 8 pictures $3\frac{1}{4} \times 4\frac{1}{4}$.**Lens:** Factory coated triplet, with effective range from f/8.8 to f/35.**Shutter:** Polaroid, with speeds of 1/12, 1/25, 1/50 and 1/100 sec., plus B.**Flash Sync:** Factory installed, M & X.**Special Features:** As in Model 95, a single exposure control dial, numbered from 1 to 8, takes the place of conventional lens and shutter calibrations. Other features: Combination optical and wire frame viewfinder; negative roll drops into

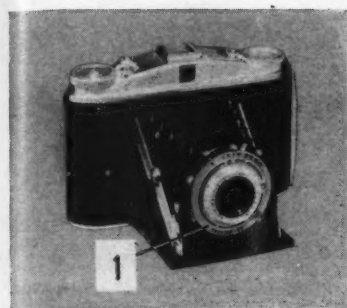
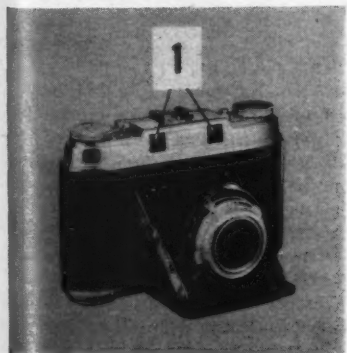
place in camera, instead of having to be clipped in; film release is red toggle switch instead of button as in Model 95. Other features same as Model 95.

Last List Price: \$89.75**Last Reported Used Selling Price Range in 1957:** \$45-\$58**Special Identification Points:** 1. Differentiated from Model 95 by having combination optical and wire frame viewfinder; 2. Has additional connection for electronic flash; 3. "Model 95A" engraved on lens-board.**POLAROID LAND SPEEDLINER (Model 95B)****Note:** This model is similar to Model 95A, but its exposure control dial is marked in EV numbers (corresponding with LVS numbers used in other photographic equipment) from 10 to 17.**Introduced:** 1957 (Currently in production)**Lens:** Factory coated 75mm, f/3.5 Solinar.**Shutter:** Synchro-Compur, 1 to 1/500 sec., plus B**Flash Sync:** Factory installed, M & X at all speeds.**Special Features:** Coupled rangefinder with combined range- and viewfinder eyepiece; coupled film transport; double exposure prevention; built-in depth of field scale; film-type indicator; accessory shoe.**Last List Price:** \$119.50**Last Reported Used Selling Price Range in 1957:** \$68-\$84**Special Identification Points:** 1. Coupled rangefinder.**POLAROID LAND****Manufacturer:** Polaroid Corp., 730 Main St., Cambridge 39, Mass.

All models are designed to produce finished prints approximately one minute after making the exposure on Polaroid Land film.

POLAROID LAND MODEL 95**Introduced:** 1948 **Discontinued:** 1954**Film Size:** 8 pictures $3\frac{1}{4} \times 4\frac{1}{4}$.**Lens:** Factory coated triplet, with effective range from f/11 to f/45.**Shutter:** Polaroid, with speeds of 1/8, 1/15, 1/30 and 1/60 sec., plus B.**Flash Sync:** Factory installed, M.**Special Features:** A single exposure control dial, numbered from 1 to 8,

takes the place of conventional lens and shutter calibrations. Since the lens and shutter controls are coupled, each exposure number represents a specific lens opening-shutter speed combination. Other features: Optical eye-level viewfinder; focusing by lever which moves entire shutter-lens housing on track; accessory shoe.

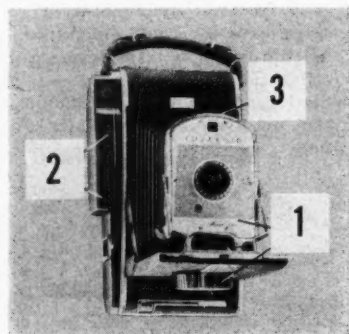
Last List Price: \$89.75**Last Reported Used Selling Price Range in 1957:** \$38-\$57**Special Identification Points:** 1. Only Polaroid Land model with "ball and mast" sighting point for viewfinder; 2. "Model 95" engraved on lens-board; 3. Differentiated from later Model 95A by not having sync for electronic flash.**Lens:** Factory coated, 85mm, f/4.5 Apotar.**Shutter:** Until 1953, came with Pronor S, 1 to 1/300 sec., plus B. Version introduced in 1953 comes with Pronor SV, with self-timer.**Flash Sync:** Factory installed. M & X at all speeds.**Special Features:** Double exposure prevention; zone focusing settings; built-in depth of field scale; accessory shoe.**Last List Price:** \$47.50**Last Reported Used Selling Price Range in 1957:** \$20-\$31**Special Identification Points:** 1. 1951 version has Pronor S shutter; current version has Pronor SV shutter; 2. No rangefinder.**ANSCO SPEEDEX SPECIAL "R"****Note:** This camera is similar to the Speedex Special, but has built-in, uncoupled rangefinder. First version has Pronor S shutter; version introduced in mid-1953 has Pronor SV; current version (introduced in mid-1954) has Pronor SVS.**Introduced:** 1953 (currently in production)**Last List Price:** \$55**Last Reported Used Selling Price Range in 1957:** \$24-\$37**Special Identification Points:** 1. Built-in, uncoupled rangefinder; 2. First version has Pronor S shutter; second version has Pronor SV; current version (introduced in 1954) has Pronor SVS.**ANSCO SUPER SPEEDEX****Introduced:** 1954 (currently in production)

Last List Price: \$94.50

Last Reported Used Selling Price in 1957: Not available.

Special Identification Points: 1. "Model 95B" engraved on lensboard; 2. "EV" engraved above exposure control dial; 3. No built-in rangefinder.

POLAROID LAND MODEL 150



Note: This model is similar to Model 95B, but has built-in, coupled rangefinder; optical viewfinder which automatically corrects for parallax; clip on top of camera into which flashgun fits and makes direct connection, as well as special outlet for electronic flash; and large focusing knob located on bottom of camera bed.

Introduced: 1957 (Currently in production)

Last List Price: \$109.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. "Model 150" engraved on lensboard and focusing knob; 2. Built-in coupled rangefinder; 3. "EV" engraved above exposure control dial.

POLAROID LAND MODEL 800

Note: This model is similar to Model 150 but has specially selected shutter and permanently lubricated bearings for the steel rollers.

Introduced: 1957 (Currently in production)

Last List Price: \$126

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. "The 800" engraved on lensboard and focusing knob; 2. Built-in coupled rangefinder; 3. "EV" engraved above exposure control dial.

POLAROID LAND MODEL 100

Note: This model is basically similar to the Speedliner (Model 95A), but has been modified slightly for heavy duty business and industrial use. Lens and shutter are specially selected for sharpness and accuracy.

Introduced: 1954 Discontinued: 1957

Special Features: Permanently lubri-

cated spreader-roller bearings; extra-strong stainless steel tripod sockets. Other features same as Model 95A.

Last List Price: \$97.75

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. "Model one hundred" engraved on lensboard.

POLAROID LAND MODEL 700

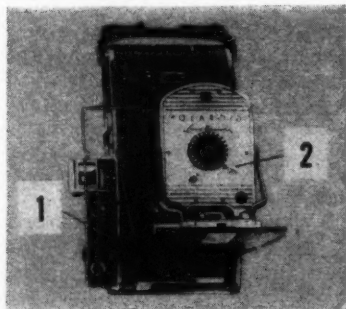
Note: This model is basically similar to the Speedliner (Model 95A), but has a non-coupled, coincidence type rangefinder. Other differences are: Specially selected shutter and permanently lubricated bearings for the steel rollers.

Introduced: 1955 Discontinued: 1957

Last List Price: \$125

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Built-in, non-coupled, rangefinder; 2.



"The 700" engraved on front of shutter housing.

POLAROID LAND HIGH-LANDER (Model 80)

Introduced: 1954 Discontinued: 1957

Film Size: 8 pictures $2\frac{3}{4} \times 3\frac{1}{2}$.

Lens: Factory coated triplet, with effective range from f/8.8 to f/50, focused by turning front element.

Shutter: Polaroid, with speeds of 1/25 and 1/100 sec., plus B.

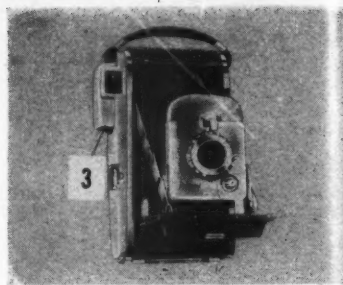
Flash Sync: Factory installed, M.

Special Features: As in Models 95 and 95A, a single exposure control dial takes the place of conventional lens and shutter calibrations; however, in Model 80, the dial is numbered from 2 to 9, instead of 1 to 8. Other features: Flash connection is made by clipping flashgun directly onto top of camera; enclosed optical viewfinder; accessory shoe; self erecting bed.

Last List Price: \$69.95

Last Reported Used Selling Price Range in 1957: \$36-\$46

Special Identification Points: 1. Camera is much smaller than other models; 2. Takes $2\frac{3}{4} \times 3\frac{1}{2}$ pictures; 3.



Has enclosed, instead of frame-type, optical viewfinder; 4. Exposure dial numbered from 2 to 9; 5. "Model 80" engraved on front folding support.

POLAROID LAND HIGH-LANDER (Model 80A)

Note: This model is similar to Model 80, but its exposure control dial is marked in EV numbers (corresponding with LVS numbers used in other photographic equipment) from 11 to 18.

Introduced: 1957 (Currently in production)

Last List Price: \$72.75

Last Reported Used Selling Price Range in 1957: Not available.

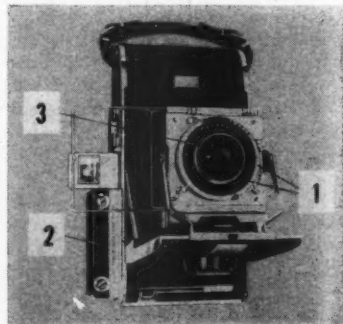
Special Identification Points: 1. "Model 80A" engraved on front folding support; 2. "EV" engraved above exposure control dial.

POLAROID LAND PATHFINDER (Model 110)

Introduced: 1952 Discontinued: 1957

Film Size: 8 pictures $3\frac{1}{4} \times 4\frac{1}{4}$.

Lens: Factory coated 127mm, f/4.5 Wollensak Raptar, calibrated in conventional manner.



Shutter: Rapax II, 1 to 1/400 sec., plus B & T, calibrated in conventional manner.

Flash Sync: Factory installed, M & X.

Special Features: Coupled rangefinder; depth of field scale; parallax correction; accessory shoe; built-in exposure calculator matches readings of GE-Polaroid exposure meter; extra large focusing knob.

Last List Price: \$249.50

Last Reported Used Selling Price Range in 1957: \$140-\$163

Special Identification Points: 1. Conventional f-stops and shutter speed calibrations; 2. Coupled rangefinder; 3. "Pathfinder" engraved on lens plate and focusing knob.

POLAROID LAND PATHFINDER (Model 110A)

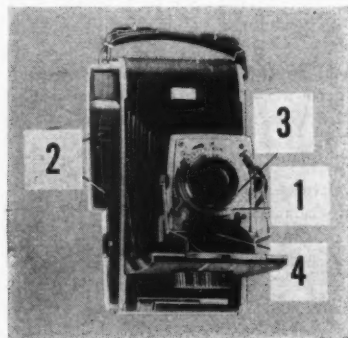
Introduced: 1957 (Currently in production)

Film Size: 8 pictures $3\frac{1}{4} \times 4\frac{1}{4}$

Lens: Factory coated 127mm, f/4.7 Rodenstock Ysarex, calibrated in f-stops.

Shutter: Prontor SVS, 1 to 1/300 sec., plus B and self-timer. Shutter is calibrated in both conventional and EV systems.

Flash Sync: Factory installed, M & X.



Special Features: EV system (corresponding with LVS numbers used in other photographic equipment) engages or disengages by lever movement; built-in coupled rangefinder; optical viewfinder which automatically corrects for parallax; clip on top of camera into which flashgun fits and makes direct connection, as well as special outlet for electronic flash; built-in lens cover; large focusing knob located on bottom of camera bed.

Last List Price: \$169.50

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Prontor SVS shutter, with conventional and EV scales; 2. Coupled rangefinder; 3. "Pathfinder 110A" engraved on lensplate; 4. Built-in lens cover.

VOIGTLANDER

Manufacturer: Voigtlander A.G., Braunschweig, Germany.

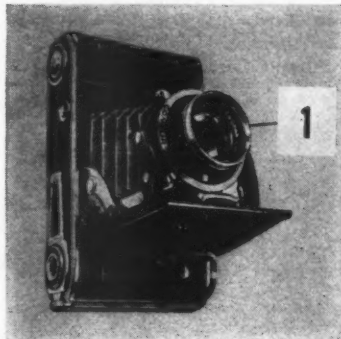
Importer: H. A. Bohm & Co., 4761 W. Touhy Ave., Chicago 30, Ill.

VOIGTLANDER BABY BESSA (Original model)

Film Size: 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1939 **Discontinued:** 1940

Lens: 75mm, f/3.5 Voigtar, 75mm, f/4.5 Vaskar, or 75mm, f/3.5 Skopar.
Shutter: Prontor 00 or Compur 00, 1 to 1/300 sec.



Flash Sync: None. Add Type 1 (X sync). See page 65

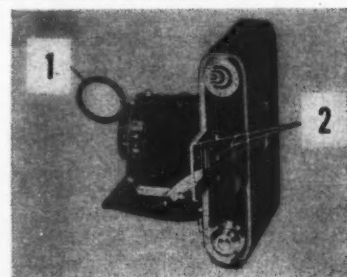
Special Features: Frame-type optical viewfinder; trigger-type shutter release in baseboard; built-in depth of field scale.

Last List Price: With 75mm, f/3.5 Voigtar, \$45; with 75mm, f/4.5 Vaskar, \$55; with 75mm f/3.5 Skopar, \$65

Last Reported Used Selling Price Range in 1957: With f/3.5 Voigtar, \$14-\$25

Special Identification Points: 1. No built-in filter as in later versions.

VOIGTLANDER BABY BESSA (6 x 6 model)



Film Size: 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1948 **Discontinued:** 1950

Lens: 75mm, f/3.5 Voigtar or 75mm, f/4.5 Vaskar.

Shutter: Prontor 00, with speeds down to 1 sec., plus B & T and self-timer.
Flash Sync: None. Add Type 1 (X sync). See page 65

Special Features: Built-in hinged filter. Other features same as first model.

Last List Price: With 75mm, f/3.5 Voigtar, \$39.50; with 75mm, f/4.5 Vaskar, \$45.50

Last Reported Used Selling Price Range in 1957: With f/4.5 Vaskar, \$19-\$28

Special Identification Points: 1. Built-in filter; 2. Frame, instead of built-in optical finder as in later versions.

VOIGTLANDER BABY BESSA (1948 model)

Film Size: There are two versions of this model: one takes 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film; the other takes 16 pictures $1\frac{5}{8} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1948 **Discontinued:** 1950

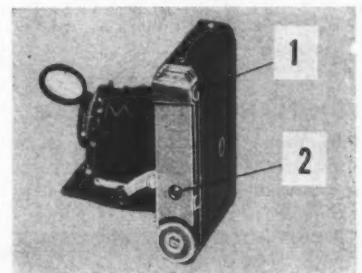
Lens: 75mm, f/3.5 Voigtar; 75mm, f/4.5 Vaskar; 75mm, f/3.5 Skopar; or 75mm, f/3.5 Heliar.

Shutter: Prontor 00 or Compur 00.

Flash Sync: None. Add Type 1 (X sync). See page 65

Special Features: Optical viewfinder; automatic exposure counter. Other features same as 6 x 6 model.

Last List Price: With 75mm, f/3.5 Voigtar, \$39.50; with 75mm, f/4.5 Vaskar, \$45.50



Last Reported Used Selling Price Range in 1957: With f/3.5 Voigtar, \$20-\$27

Special Identification Points: 1. Built-in optical viewfinder; 2. Automatic exposure counter.

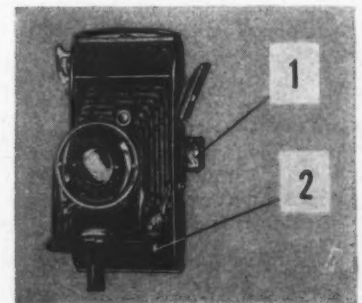
VOIGTLANDER BESSA 6 x 9

Film Size: 8 pictures $2\frac{1}{4} \times 3\frac{1}{4}$, or 16 pictures $1\frac{5}{8} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1937 **Discontinued:** 1940

Lens: 105mm, f/7.7 or f/6.3 Voigtar; 110mm, f/6.3 or f/4.5 Voigtar; or 105mm, f/4.5 Skopar.

Shutter: Single (with f/7.7 Voigtar), 1/25, 1/75 sec., plus B & T and self-timer; Prontor (with 105mm or 110mm f/6.3 Voigtar), 1/25 to 1/125



sec., plus B & T and self-timer; Prontor II (with 110mm, f/4.5 Voigtar), 1 to 1/150 sec., plus B & T and self-timer; or Compur (with 105mm, f/4.5 Skopar), 1 to 1/250, plus B & T and self-timer.

Flash Sync: None. Inadvisable to try to add internal sync to Singlo. Others, add Type 1 (X sync). See page 65

Special Features: Optical and waist-level finders; trigger-type shutter release in baseboard; built-in depth of field chart; mask for taking 16 pictures $1\frac{3}{8} \times 2\frac{1}{4}$.

Last List Price: With f/7.7 Voigtar, \$16; with f/6.3 Voigtar, \$21.50; with f/4.5 Voigtar, \$27.50; with f/4.5 Skopar, \$43.50

Last Reported Used Selling Price Range in 1957: With f/4.5 Skopar, \$17-\$27

Special Identification Points: 1. Frame-type, instead of built-in optical viewfinder as in later versions; 2. Shutter release in baseboard, instead of body of camera as in later versions.

VOIGTLANDER BESSA I

Film Size: 8 pictures $2\frac{1}{4} \times 3\frac{1}{4}$ or 16 pictures $1\frac{3}{8} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1950 **Discontinued:** 1956



Lens: Factory coated 105mm, f/4.5 Vaskar or 105mm, f/3.5 Color-Skopar.

Shutter: Early versions had Prontor S, 1 to 1/250 sec., plus B and self-timer, or Synchro-Compur, 1 to 1/500 sec., plus B and self-timer. Current versions have Prontor SV, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed. Early versions had X only. Later ones have M and X.

Special Features: Double exposure prevention; parallax-compensated optical viewfinder; zone focusing; body shutter release; built-in depth of field scale; mask for taking 16 pictures.

Last List Price: With f/4.5 Vaskar lens, \$57.50; with f/3.5 Color-Skopar lens, \$72.50

Last Reported Used Selling Price Range in 1957: With f/3.5 Color-Skopar, \$40-\$49

Special Identification Points: 1. No built-in rangefinder; 2. Body shutter release.

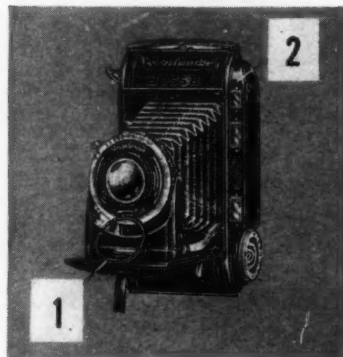
VOIGTLANDER RANGEFINDER BESSA

Film Size: 8 pictures $2\frac{1}{4} \times 3\frac{1}{4}$ or 16 pictures $1\frac{3}{8} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1939 **Discontinued:** 1941

Lens: 105mm, f/3.5 Skopar.

Shutter: Compur-Rapid, 1 to 1/400



sec., plus B & T and self-timer.

Flash Sync: None. Add either Type 1 (X sync) or 2 (M bulbs). See page 65

Special Features: Coupled rangefinder; built-in hinged filter; mask for taking 16 pictures; viewfinder-mask selector knob; trigger-type shutter release in baseboard; built-in depth of field scale.

Last List Price: \$75

Last Reported Used Selling Price Range in 1957: \$30-\$42

Special Identification Points: 1. Built-in hinged filter; 2. Made only with black finish.

VOIGTLANDER BESSA II

Film Size: 8 pictures $2\frac{1}{4} \times 3\frac{1}{4}$ on 120 film.

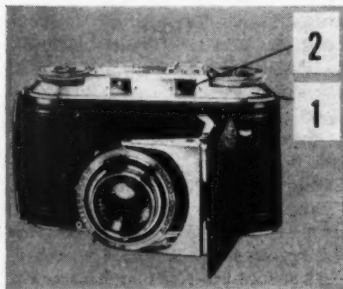
Introduced: 1950 **Discontinued:** 1956

Lens: 105mm, f/3.5 Color-Heliar; 105mm, f/3.5 Color-Skopar; or (in latest version only) 105mm, f/4.5 Apo-Lanthar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M and X.

Special Features: Coupled rangefinder with single eyepiece for view-range-



finder; zone focusing settings; built-in depth of field scale; trigger-type shutter release in baseboard.

Last List Price: With f/3.5 Color-Heliar, \$159.50; with f/3.5 Color-Skopar, \$119.50; with f/4.5 Apo-Lanthar, \$200

Last Reported Used Selling Price Range in 1957: With f/3.5 Color-Heliar, \$57-\$80

Special Identification Points: 1. Made only with chrome finish; 2. Single window for view-rangefinder.

ZEISS

Manufacturer: Zeiss Ikon A.G., Stuttgart, Germany.

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

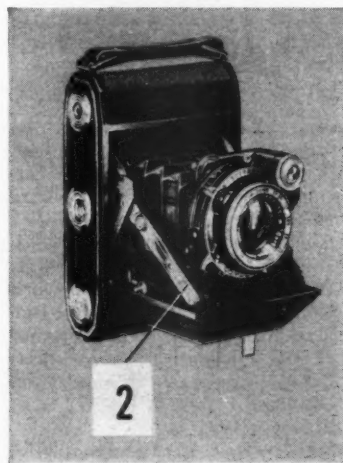
Flash Sync: Type 1 (X sync) can be added to any non-sync Zeiss folding camera listed. See page 65 for flash sync details.

SUPER IKONTA A (1934 model)

Introduced: 1934 **Discontinued:** 1937

Film Size: 16 pictures $1\frac{3}{4} \times 2\frac{1}{4}$ on 120 film.

Lens: 70 or 75mm, f/3.5 Zeiss Tessar. **Shutter:** Compur-Rapid, 1 to 1/500 sec., plus B & T.



Flash Sync: None. See note beginning of Zeiss section.

Special Features: Coupled rangefinder; self-erecting front; direct-vision optical finder.

Last List Price: With 70 or 75mm Tessar, \$110

Last Reported Used Selling Price Range in 1957: \$28-\$43

Special Identification Points: 1. No body shutter release (on earlier version only); 2. Made only with black enamel finish with nickel-plated fittings.

SUPER IKONTA A (1937 model)

Film Size: 16 pictures $1\frac{3}{4} \times 2\frac{1}{4}$ on 120 film.

Introduced: 1937 **Discontinued:** 1950

(Continued on page 136)

SPECIAL REPORT SECTION

MODERN PHOTOGRAPHY, which generally devotes many of its editorial pages to the techniques of seeing and making excellent pictures, has for this month chosen to lay "policy" aside. For the first time in history innovations of such radical nature have appeared that we have felt the obligation to test and to show the latest developments in still and motion picture equipment. In all fairness, our audience deserves to know in detail the workings and worth of these new photographic items. In the motion picture field there is now the first successful combination camera-projector (*page 115*). The $2\frac{1}{4} \times 2\frac{1}{4}$ reflex family has had several promising jolts: for the first time there are interchangeable lenses for twin-lens cameras (*page 104*), as well as a short focal length lens for single-lens cameras (*page 110*). From Germany comes an exciting new 35mm single-lens reflex camera (*page 102*). And from Japan we see a rangefinder 35mm which offers interchangeable backs (*page 108*). These cameras and other new equipment shown on these pages have commanded our undivided attention. Thus Special Reports take precedence!



RETINA REFLEX: NOW OR LATER?

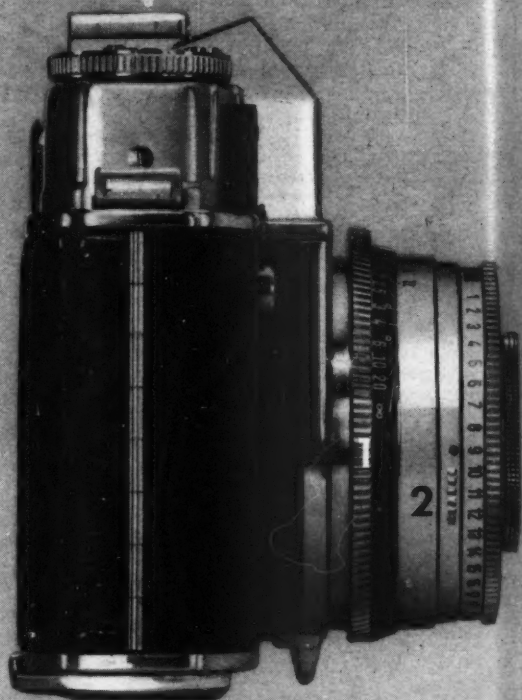
**A new 35mm is on the market;
or isn't it? . . . by Herbert Keppler**

FROM THE MOMENT we first saw the Kodak Retina Reflex in Germany last year, we've been itching to get our hands on one. If it works, thought we, it will be one of the most sensational 35mm cameras made. The Retina Reflex seemed to have just about every 35mm eye-level reflex camera problem solved. The focusing image was extremely brilliant from corner to corner, the split image rangefinder in the middle did not detract from the main focusing image. It was easy to use and well defined. When you pressed the shutter release, the automatic lens diaphragm stopped down to any predetermined opening. A flick of the rapid wind lever underneath the camera body advanced the film and wound the shutter for the next exposure. Amazingly enough, the shutter mechanism seemed very quiet by single-lens reflex standards. The built-in exposure meter cell was larger than many similar units. Most important for available light photographers—here was the first eye-level reflex with leaf-type shutter to have an $f/2$ lens. Price, somewhere under \$200—if and when available.

We bought our own

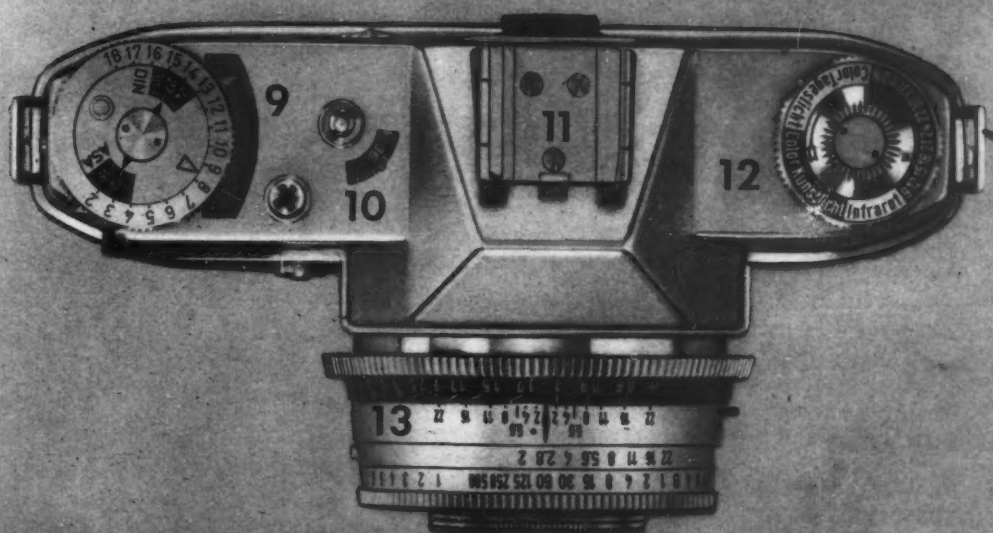
Eventually, the camera will be imported by Eastman Kodak Co. Like a lot of amateurs, however, we couldn't wait. So we imported one directly from Germany. It's marked in meters instead of feet, has no guarantee card and does have a few defects which the regularly imported production models won't.

Basically, the camera body, aside from the focusing mechanism is quite similar to the Retina IIIC body—the casting is well finished, rugged, slightly heavy; the rapid wind lever locks after the last exposure is made, the rewind knob pulls (Continued on page 180)

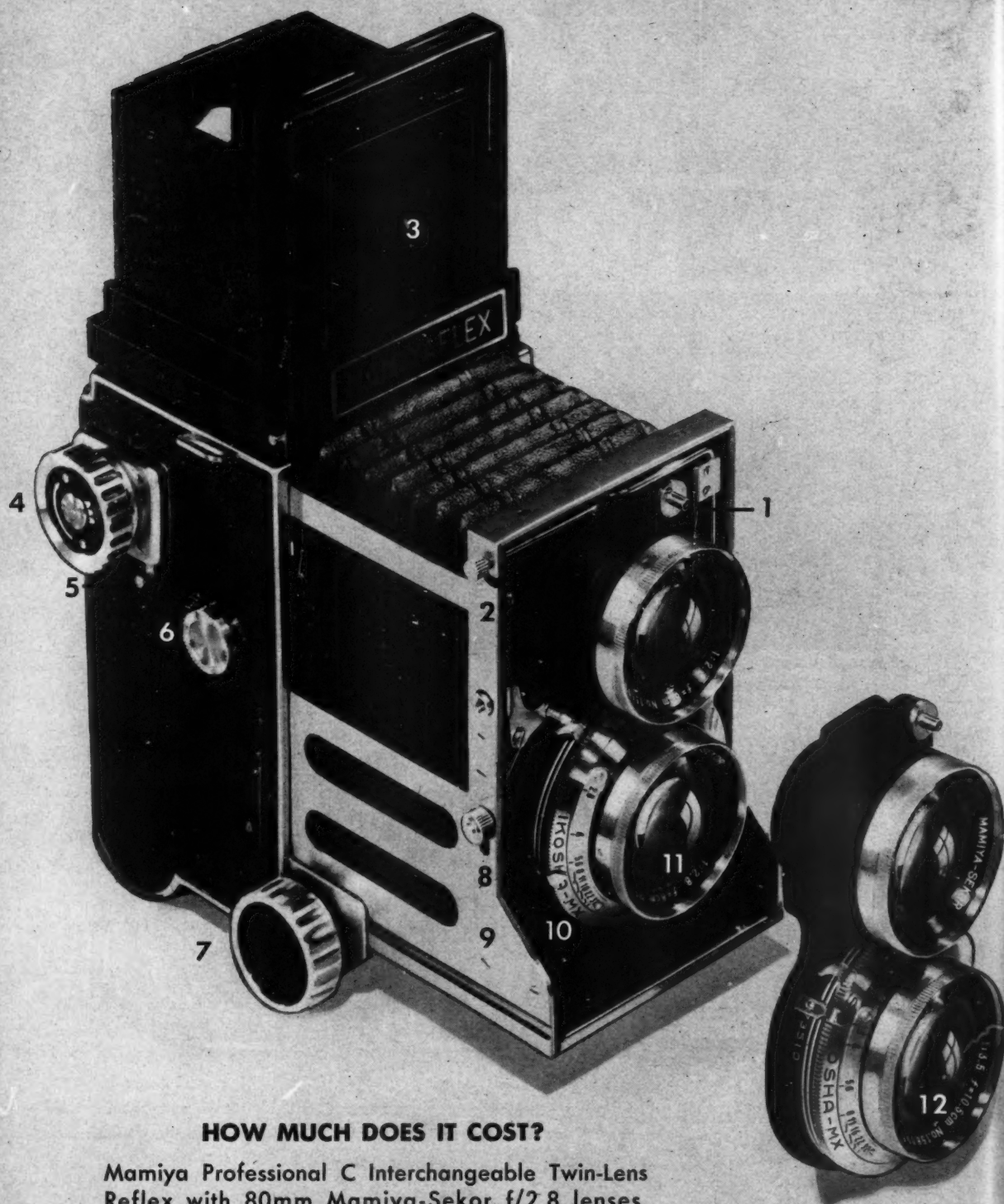


HERE ARE THE FEATURES

1. Heavily knurled focusing ring.
2. By pulling back and moving setting ring with this lever, LVS numbers can be changed.
3. Built-in meter photocell is larger than on Retina IIIC.
4. Shutter release.
5. Push-on sync contact.
6. Interchangeable front cell 50mm $f/2$ Schneider Xenon lens.
7. Front lens element release lever.
8. Bottom single stroke rapid wind lever.
9. Single LVS exposure meter calculator dial.
10. Frame counter shows pictures remaining, locks after last exposure.
11. Accessory shoe for flash unit.
12. Pull up rewind knob contains film reminder.
13. Shutter speeds, lens openings, depth of field and focusing scale all visible from top of camera.



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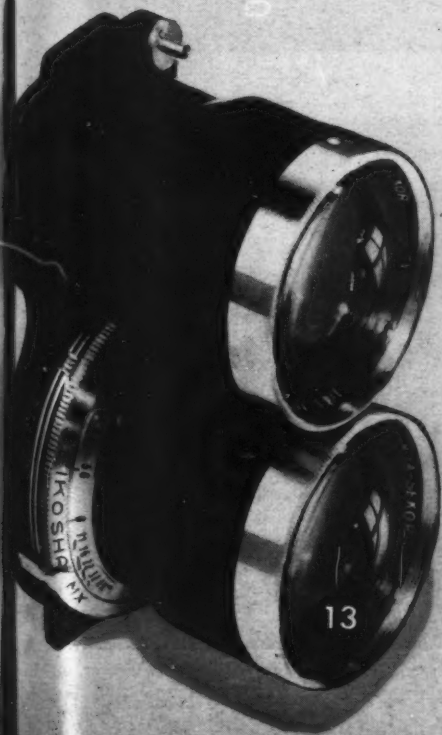


HOW MUCH DOES IT COST?

Mamiya Professional C Interchangeable Twin-Lens Reflex with 80mm Mamiya-Sekor f/2.8 lenses, \$159.50; accessory 105mm f/3.5 lenses, \$89.50; accessory 135mm f/4.5 lenses, \$99.50. Eye-level Mirror Finder, \$9.95; Grip Holder, \$6.75; Paramender, \$8.95; case for camera, \$7.50.

HOW DOES IT WORK?

1. Push-on sync contact on each lens set. 2. Lens changing lever allows instant lens removal, but can only be moved when film is covered, camera is at infinity. 3. Hood can be removed, replaced with eye-level mirror hood. 4. Film wind knob. 5. Manual film wind release lever. 6. Lens lock covers film when lenses are interchanged. 7. Focusing knob. 8. Shutter release. 9. Geared focusing bed. 10. Seikosha MX shutter with speeds 1 to 1/500 sec. on each lens set. 11. Five-element Mamiya-Sekor 80mm f/2.8 lens. 12. Four-element Mamiya-Sekor 105mm f/3.5 lens. 13. Three-element Mamiya-Sekor 135mm f/4.5 lens.



ARE 3 LENSES BETTER THAN 1?

**Mamiyaflex C Professional offers
unique system, by Herbert Keppler**

THE DESIRE FOR a workable interchangeable lens, twin-lens reflex is an old one. The advantages are obvious—a combination of a twin-lens camera's good points plus the lens versatility found usually only in single-lens reflexes.

Past efforts to produce the perfect answer ended disastrously. And when we first heard about the Mamiyaflex C Professional we thought it would be no more workable than cameras that had appeared before. Now, after two months of intensive optical and field tests, we're happy to report that there is at last a twin-lens, interchangeable lens camera that really works. Moreover, the camera is sturdy and relatively inexpensive.

The Mamiyaflex C Professional owes its success to simplicity of design. There are three sets of lenses now available. They differ in focal length and lens opening (see illustration, left). Each lens set has an individual, identical shutter. To provide sufficient distance between film plane and lens for all the various focal lengths, the Mamiya has a long-extending bellows and camera bed similar to that of a good view or press camera. Lenses can be interchanged in seconds by racking the bellows back to infinity, turning a small lock knob on the side of the camera, lifting away a locking rod on the lens mount and then removing the lens assembly. The lens knob, incidentally, governs both a film blind within the camera body and a warning signal which appears under the ground glass. The film blind pre-

MAMIYAFLEX-C PROFESSIONAL (cont.)

vents the film from being fogged while lenses are interchanged.

To keep the design workable and simple (and inexpensive) there are no double exposure prevention or automatic shutter cocking devices. Camera operation is a bit primitive, but effective. You wind the roll until the arrows on the film backing line up with two dots on the camera's focal plane. Close the back and continue winding the film until the knob stops automatically on the first exposure. You then cock the shutter by lifting a small cocking lever around the lens mount and you're ready for the first exposure. After shooting you depress a small manual film advance lever next to the wind knob. This releases the knob so you can advance the film to the next picture, where the knob will

again lock automatically. It's pretty foolproof.

Incidentally, the film winds directly across the film plane without turning any corners. There have been arguments as to whether turning a corner before exposing the film causes the film to take a "set" or buckle, producing fuzzy pictures. Frankly, we've never had this happen to us with *any* camera, but it *can't* happen in the Mamiyaflex C Professional.

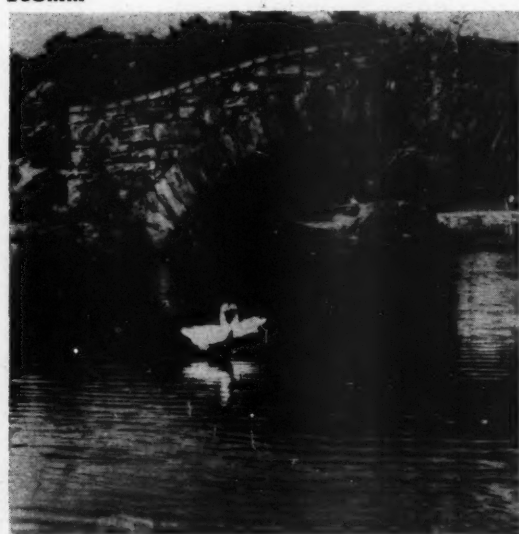
The camera focuses easily. A finely-lined Fresnel lens with center clear spot increases overall brilliance and the magnifier covers the entire ground glass area. The front standard of the camera is as solid as a rock, even when the bellows is extended to full length.

Two lenses fill most needs with this camera. The 80 and 135mm make a nice camera outfit. The 135mm lens is excellent for portraiture (see photographs) or

80MM



105MM



PORTRAITS: 105 AND 135MM LENSES PRODUCE BETTER ONES.

By choosing the right focal length lens and changing camera-to-subject distance, you can control the relative proportion of objects within a picture while keeping the image size constant. This is important in portraiture where a long nose, a hand held in front of a face can seem so far out of proportion that the picture is ruined. For best head and shoulder portraits the negative area should be filled at a distance of six feet or more. This requires a lens of approximately 135 to 150mm in focal length, as is demonstrated by the accompanying photographs. Note how hand seems far too large in 80mm portrait when compared to head. If you back away and use a 105mm lens, the picture will improve. For best results, try 135mm at about six feet.

80MM



similar close work where you normally get apparent distortion. If you *have* to settle on one lens, the 105mm might be an ideal compromise. The camera comes with the 80mm but you can buy it with the 105mm instead.

There are a number of interesting accessories. The Mirror Finder, frankly, is awkward. Although it resembles a prism housing, it is not. Instead, it produces an upside down mirror image reflected from the ground glass. Wait until Mamiya brings out a prism finder.

The Grip Holder (essential once you try it) fits one side of the camera and is an unalloyed joy. There's a single-exposure back; also an auxiliary iris diaphragm to check the depth of field through the viewing lens. The latter wasn't available at writing time, but it does seem like a good idea—particularly since there isn't a depth of field indicator on the camera proper. The

carrying case is poor and too soft to protect the camera. However, with the heavy metal lens covers supplied, we frankly don't think the camera needs much protection—the main casting and other construction are that sturdy.

The long extension of the bellows is useful for extreme close-ups. Most twin-lens reflexes focus no closer than about 3 feet. You can focus the Mamiyaflex C Professional to about 7 inches with the 80mm lens. Of course, there is the parallax problem. It can be solved in two ways. The camera does not have built-in automatic parallax compensation. Instead there are lines on the ground glass indicating parallax correction. On one side of the bellows bed there is an exposure correction scale. The scale can be used to indicate which parallax lines to use. It's a bit of work, but tests indicate that it's accurate and who (Continued on page 178)

135MM



PHOTOS BY LEO STAHN

LANDSCAPES: PICTURE AREA CHANGES WITH FOCAL LENGTH.

To most people interchangeable lenses mean changing the apparent distance between camera and subject. At first glance the difference between the area covered by the three available lens sets (a wide-angle may be made in the future) does not seem to be pronounced. In the portrait series *below*, however, you can see a marked difference if you examine the field of view for the 80 and 135mm lenses. While the scenic photographer can sometimes shift his camera-to-subject distance to change area coverage, the photographer who likes a twin-lens camera for sports photography is often limited to a specific distance for the players. The 135mm lens set should find a ready use there. However, for available light sports photography where a large lens opening is needed, the 80mm f/2.8 may be almost a necessity.

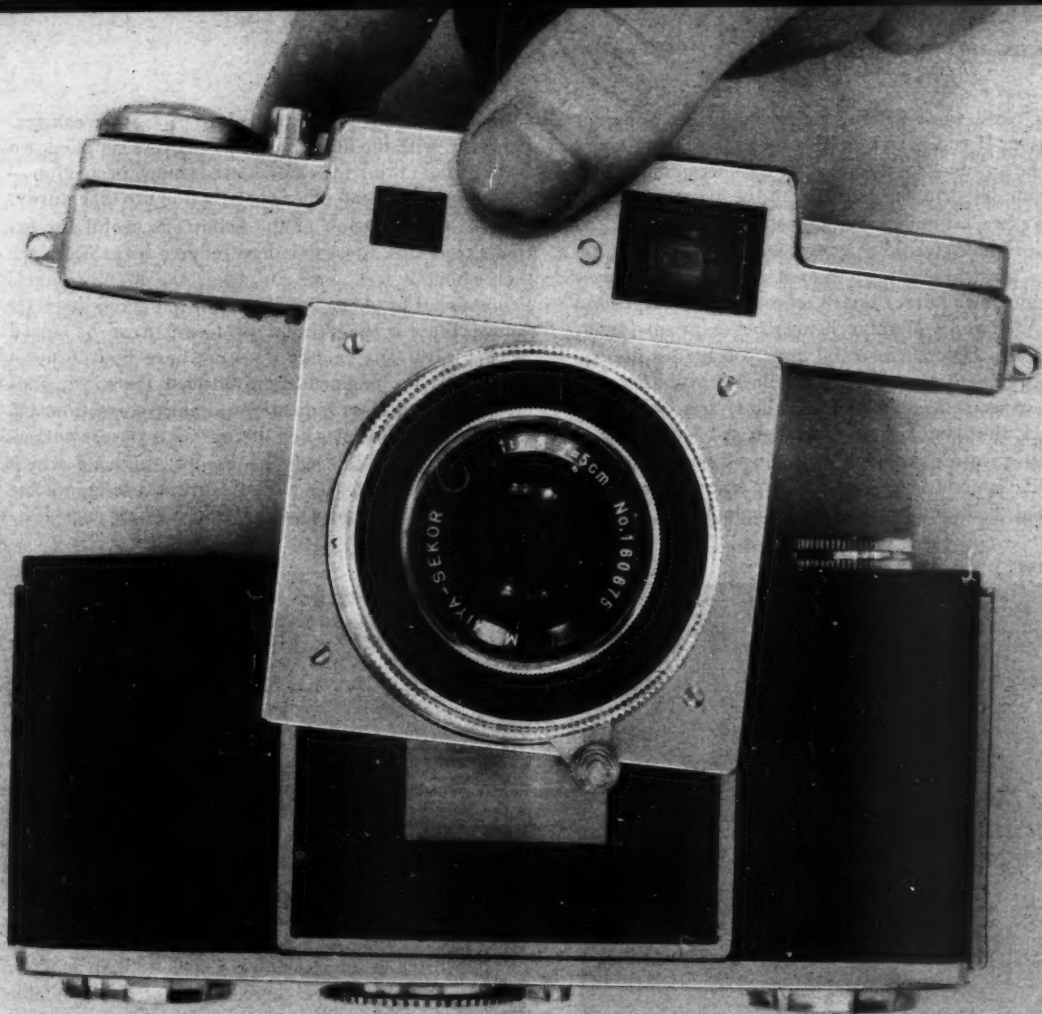
105MM



135MM



PHOTOS BY HERBERT KEFFLER



The Mamiya Magazine-35 permits rapid film changing for fast shooting or switching from black-and-white to color.

MAMIYA 35: CHANGEABLE BACK FOR COLOR, B&W



IN ANY discussion of the perfect, but quite mythical, 35mm camera, someone is bound to suggest an interchangeable film back as a prime requirement. With an interchangeable back it would be possible to switch from black-and-white to color instantaneously with only one camera.

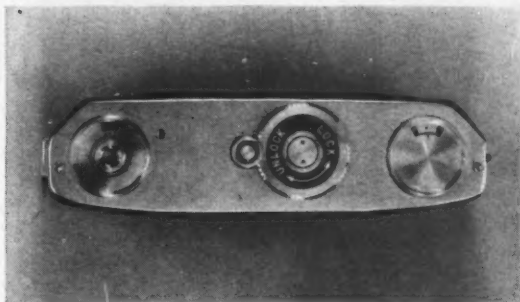
Until now, there wasn't a 35mm on the American market that really came close to the ideal. The Mamiya Magazine-35 is the first 35mm camera with interchangeable film magazines to sell for less than \$100. The camera has a substantial look to it. And it feels solid when you pick it up.

At first glance the Mamiya resembles several other 35mm cameras with between-the-lens shutter. It's equipped with a Mamiya-Sekor five-element, 50mm f/2.8 lens, Seikosha MXL between-the-lens shutter, LVS, speeds from 1/500 to 1 sec. and B, single stroke film advance and automatic shutter cocking, depth of field scale, and 1:1 combined rangefinder-viewfinder. All this is on the front of the camera. That's where its resemblance to other cameras ends. Press a release button, turn a wheel on the bottom of the camera, and the camera breaks into two major components.

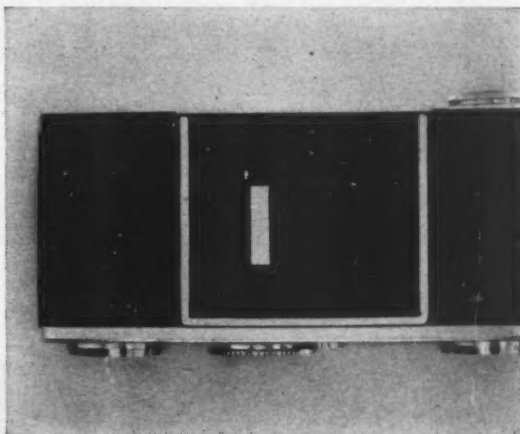
The bottom segment is the interchangeable film magazine. Unlocking the magazine from the rest of the camera automatically positions a safety cover over the film plane. When you open the hinged back to load the magazine, a frame counter is set to a red dot two frames below zero.

Placing the two segments of the camera together engages the rapid advance lever to a notched axle on the magazine take-up spool. When you turn the wheel at the bottom of the magazine, locking the two segments together, it also removes the safety cover from in front of the film plane. Flipping (*Continued on page 132*)

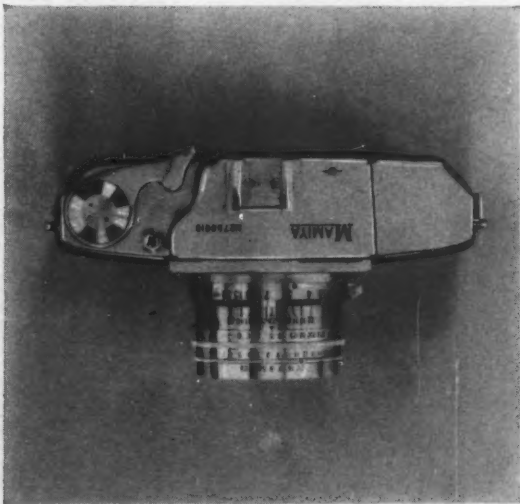
HERE'S HOW MAMIYA-35 WORKS



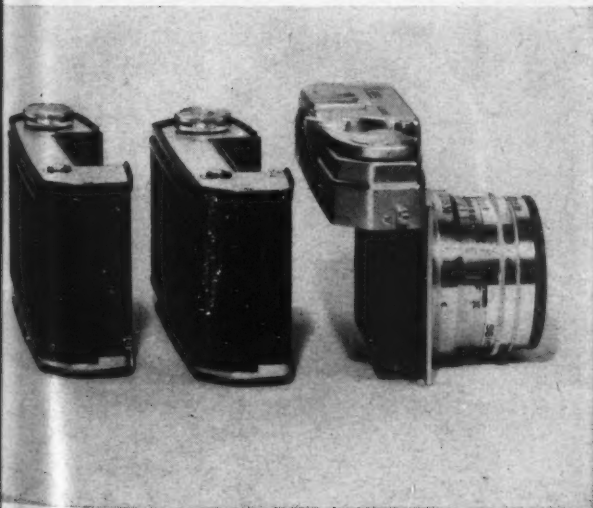
Bottom view of magazine shows exposure counter (right), locking device and film speed dial. Indicator to the right of dial tells if film is advancing.



Film cover automatically retracts when magazine is locked into place, revealing the film plane and making the camera ready for picture taking.



Front and top of the camera contain rapid advance lever, shutter release, lens and accessory clip. Magazine must be removed to rewind film back into cartridge.



The photographer equipped with a Mamiya Magazine-35 and an extra film magazine can go through a sustained shooting session without stopping to load film.

NEW LENSES FOR 2¼ REFLEX



THE KALIMAR 2¼ single-lens reflex is an improved, smoother operating version of the Soligor 66. It has added features such as: a better camera back lock, a superior field lens for easier focusing, a smoother and more accurate shutter, and a neater camera body. The manufacturer claims that the sync on the camera has been improved. It is synchronized at 1/25 with electronic flash and at all speeds with focal-plane bulbs. The speeds on the camera range from 1/25 to 1/500. The Bulb setting may be used for long exposures with the help of a cable release with a set screw. We were surprised that the focal-plane shutter did not shake and squeak when the exposure was made. A more expensive single-lens reflex lacks this feature which makes it easy to get sharp pictures without fear of camera movement. The mirror automatically returns to the focusing position after the photograph is taken. You do not have to wind the film to bring the mirror back. Film loading is semi-automatic. The arrows on the film are lined up with two red dots—push a lever, close the back, and from then on the film advance is automatic. Early models of the Kalimar Reflex gave only eleven exposures on a roll. Present models give the expected twelve exposures.

New wide-angle and telephoto

To increase the versatility of the Kalimar Reflex, a retrofocus wide-angle and a telephoto lens were placed on the market. A conventional wide-angle lens may not be used with many single-lens 2¼ reflex cameras. The reason—the cameras are constructed in such a way that these lenses would interfere with the mirror action, thus causing the camera to jam. The conventional wide-angle lens formula makes it necessary for this lens to be mounted extremely close to the film plane. When the shutter is released on a single-lens reflex the mirror automatically swings up to get out of the way of the film and to cover the ground glass and prevent light from passing through and fogging the film. The retrofocus wide-angle formula is more complicated in construction than a conventional wide-angle lens. This lens is constructed so that it does not interfere with the mirror. The \$99.50 Kalimar Retrofocus 52mm f/3.5 lens, the shortest focal length lens available for a 2¼ single-lens reflex camera, can be adapted to many other single-lens reflex cameras. It focuses as close as two feet and produces extremely sharp photographs even at its widest aperture.

There are five elements in the 150mm Kalimar f/4 telephoto (\$79.50). The manufacturer claims that the extra element aids definition. (Most telephoto lenses contain three to four elements.) The lens proved extremely sharp at all apertures.

Both telephoto and retrofocus lenses come in black mounts and have easy-to-use preset diaphragms. The 80mm f/3.5 normal lens has a chrome mount. Its preset system could be improved. All the Kalimar lenses stop down to f/22—a convenience if a fast film is in the camera when it is used in sunlight.—E. M.



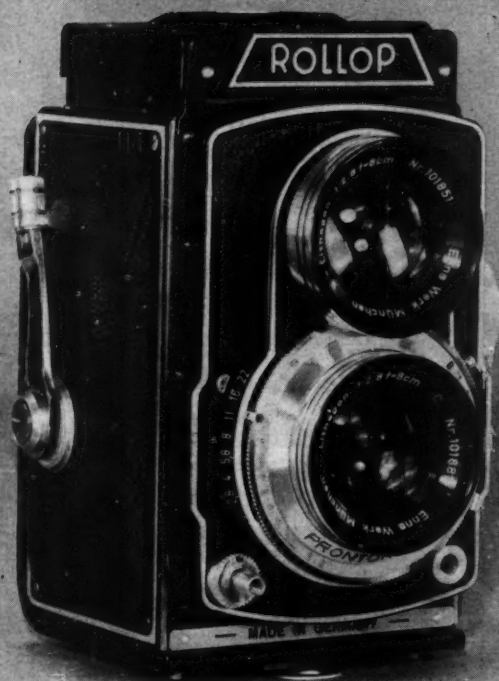
52MM RETROFOCUS WIDE-ANGLE is useful for increasing picture area and depth of field.



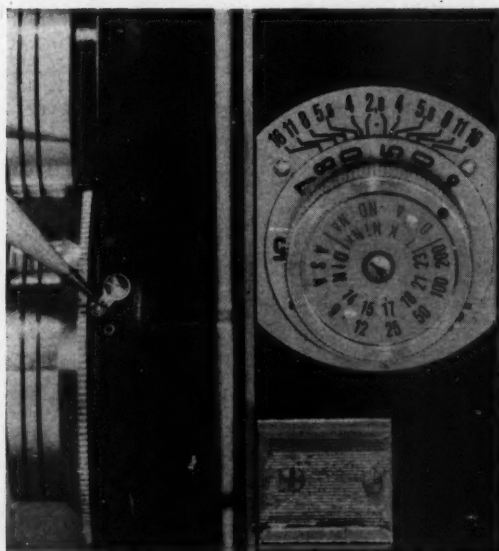
80MM NORMAL comes with camera and is good focal length lens for general use.



150MM TELEPHOTO is a great portrait lens. When subject is at a distance it allows you to "move in."



Four-element f/2.8 viewing and taking lenses of Rollop gave satisfactory results in field. Shutter release plunger can be locked when camera is not in use.



At flip of tiny switch (end of pencil), coupled LVS method may be used. Flipped back again, switch lets you set aperture, shutter separately. Large numerals on depth of field scale are exceptionally easy to read.



THE ROLLOP: FLIP SWITCH FOR LVS

PRONTOR SVS SHUTTER, sharp f/2.8 Lithagon lenses, film advance hand crank similar to those on the elder-statesmen twin-lens reflexes, Fresnel lens built under the ground glass are among the characteristics of the new Rollop. Its biggest novelty, however, is the operation of its LVS scale (numbers from 2 to 18). At the flip of a small switch (illustrated), you can engage LVS and, flipped back again, the switch lets you set exposures in the old-fashioned way.

Design of the Rollop's depth of field scale is perhaps its second most noteworthy contribution to the $2\frac{1}{4} \times 2\frac{1}{4}$ waist-level reflex genus of cameras. The black numbers are painted in extremely bold face and are particularly easy to read (see cut).

The four-element 80mm lens was acceptably sharp when used in the field along with another twin-lens reflex with an f/3.5 lens. Both cameras were used at widest aperture to shoot the same subject. The Rollop, at f/2.8, approximated nicely the degree of sharpness of the other camera at f/3.5. Sharpness improved when the Rollop's lens was stopped down to f/5.6.

The Prontor shutter—in addition to cross coupled, flip switch Light Value Scale—features built-in sync for flash and speed light, has a self timer, a boisterous voice, and speeds from 1 to 1/300 second, plus B. There is double-exposure prevention plus coupled film advance, shutter wind and exposure counter. The film advance crank has a knob that folds down at a 90° angle to the shaft of the crank. This lets you get a better grip when making pictures, and folds away flush to the case when not in use.

No lightweight, the Rollop. It is die-cast and has that heavy Germanic construction. But close examination of the model tested showed some play in the focusing panel. A product of Enna Werk, West Germany, the Rollop is priced at \$119.50.—D. J.



The Bell & Howell 240EE and 240TA, right, 16mm movie cameras. The lens mounts make the big difference.

AUTOMATIC EXPOSURE OR INTERCHANGEABLE LENSES?

TWO NEW Bell & Howell spool loading movie cameras spotlight one of the most important decisions home movie makers who are in the market for a new camera may have to make. Do you want a camera like the Bell & Howell 240EE (Electric Eye), *above, left*, with its automatic exposure system to guarantee acceptable exposure on almost every foot of film? Or is a camera

like the 240TA, *right*, a three-lens turret model, with its movie making versatility more suited to your needs.

Until you look at the lens mounts, the 240TA and 240EE appear to be exactly alike. Both have automatic film loading, mechanical footage

counter, 32-ft. spring motor run, die-cast construction, removable door, and 100-ft. 16mm film capacity.

The 240EE has a built-in exposure meter system that works on two Mallory Type PX-2 mercury batteries with a life expectancy of one year, according to Bell & Howell. The meter controls electrical impulses to a motor that turns the diaphragm on the B&H 20mm f/1.9 permanently mounted lens to the correct f-number. To get the proper exposure, you simply point the camera at the subject and shoot.

The electrical system is similar to the one on the B&H 200EE, a magazine camera. See MODERN, August, 1956, for complete details.

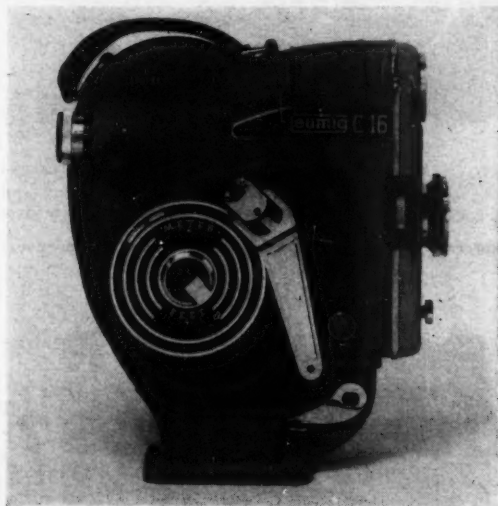
The diaphragm on the 240EE adjusts at the rate of one half f-number per second. That means that you must pan slowly enough for the camera to keep pace with any changes in exposure.

The B&H 240TA, the turret (*Continued on page 182*)

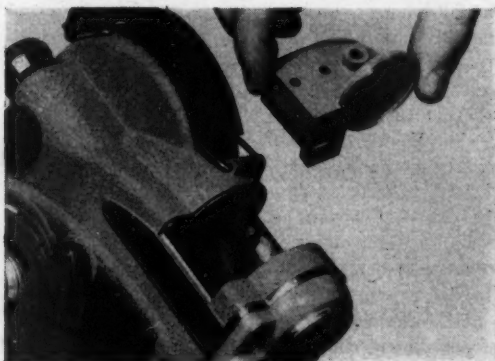
**SPECIAL
REPORT**



Thumb operates knurled wheel to set needle and pointer inside viewfinder for correct exposure.



Footage indicator must be set before shooting. Knob to right of viewfinder sets finder for field.



The built-in exposure meter can be lifted out by removing cover and turning knurled screw.

16MM EUMIG SEMI-AUTO CAMERA

THE TREND in motion picture cameras is toward a machine that will eventually take over most, if not all, the thinking from the amateur when it comes to determining exposure. Is the ideal camera one that makes a mere button pusher out of the cinematographer? That's up to the individual movie maker. Actually, the kind of movies he makes should determine how much control he wants over the mechanics of cinematography.

Here's a camera, the Eumig C16, which, while providing semi-automatic exposure determination, leaves room for the amateur to make his own decisions in situations where the mind may prove mightier than the machine.

Basically, the Eumig C16 is a spool loading camera, with 100-ft. film capacity, speeds of 16, 24, 32, 48 and 64 fps, a permanently mounted Eumigar 25mm f/1.9 lens in a focusing mount, and a built-in exposure meter.

When you look through the Eumig viewfinder to compose your scene, you'll see a pointer and a needle. The pointer is geared to an exposure index dial inside the camera where you can't miss it when loading film. You set the exposure index to adjust the pointer to the proper setting. Exposure index numbers range from 6 to 400. A European DIN scale is also included. The needle is part of the built-in exposure meter. You line up the needle and the pointer by rotating a knurled wheel on the right side of the camera and press the shutter release button to take the scene.

You can stick to the exposure setting of the built-in meter, ignore it, or use it as a base point for your own calculations. It's all up to you.

Here's how the meter works. There is no direct connection between the photoelectric cell and the lens. A diaphragm over the meter cell is geared to the diaphragm on the lens. The lens diaphragm opening is proportionate to the meter diaphragm. Exposure is determined by intensity of light and the size of the diaphragm covering the meter. (Continued on page 176)





CAMERA-PROJECTOR IN ONE

THE WITTHAUER Cine-Twin is the first really successful attempt to create a movie camera that not only takes the picture—but projects it, too. Witthauer, a division of Longines-Wittnauer Watch Co., is a new manufacturer in the photographic field.

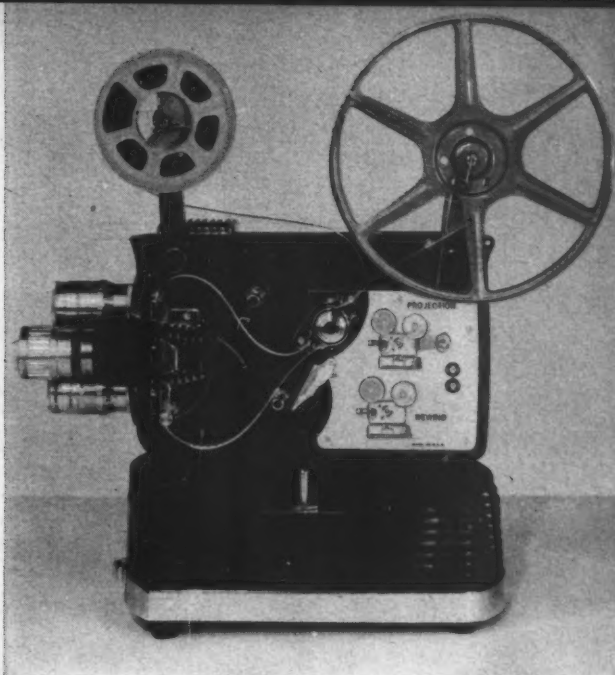
Basically, the Cine-Twin consists of an 8mm spool loaded camera and a separate power unit that can be attached to the camera, converting it into a projector. Projection reel arms, film sprocket drive, projection film gate, and 300-watt projection lamp are all contained in the camera—in addition to the regular camera components.

The Cine-Twin turret holds four lenses, three for taking movies and one for projecting them. The taking lenses are D-mounted and can be removed; the projection lens can also be slipped out of its mount.

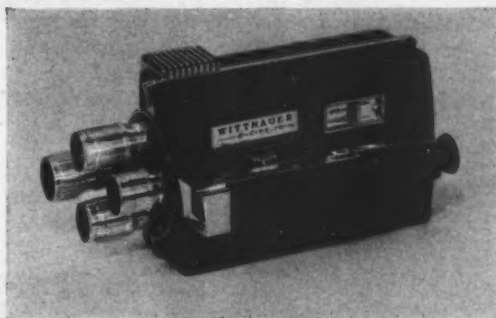
Unlike most 8mm cameras, the Cine-Twin camera does not have a spring motor drive. The camera is driven at 16 fps by an electric motor powered by three D-cell batteries. Instead of the usual spring clips, knurled wheels hold batteries in place. The battery compartment is sealed off from the rest of the camera but can be opened at any time. A zoom-type viewfinder on the right side of the camera gives the field of view for lenses from 6.5 to 38mm. There is a small neon bulb in the viewfinder that stays lit during shooting if the batteries are in good condition. The light will not operate when battery power is almost gone.

An on-off projection switch, cooling system and connection for the house current cord are on the power unit. Power from the electric projection motor is transmitted through interlocking nylon drives. The two units are solidly joined by turning a knurled knob on the power unit.

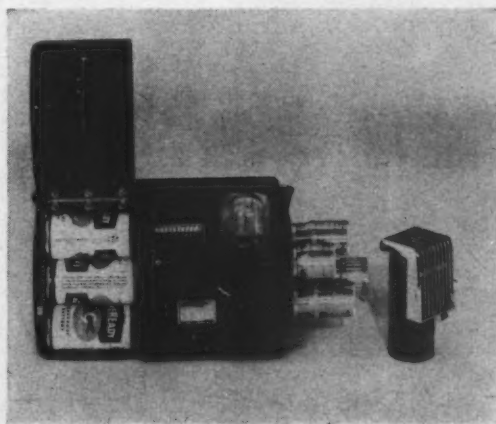
The drop-in loading sys- (Continued on page 184)



Locking the power unit to the camera makes the Cine-Twin one of the smallest 8mm projectors available. Unexposed and processed film pass through the same gate.



The Cine-Twin weighs about 4 lbs., but the freedom to shoot long bursts of film justifies the weight.



Battery compartment holds three D-cell batteries. Projection lamp may be left safely in the camera during shooting sessions. Compartments are always accessible.

NOW AVAILABLE!

MODERN PHOTOGRAPHY'S GUIDE TO USED CAMERA PRICES

The Editors are pleased to announce the publication of MODERN PHOTOGRAPHY'S GUIDE TO USED CAMERA PRICES. This guide, compiled from national sources by N. M. Grossman, features the correct selling prices of over 900 different available used cameras, still, stereo and motion picture. You can obtain it by sending 25 cents, to cover postage and handling, to MODERN PHOTOGRAPHY.

Dept. G, Modern Photography, 33 West 60th Street, New York 23, N. Y.
I enclose 25 cents in coin. Please send MODERN PHOTOGRAPHY'S GUIDE
TO USED CAMERA PRICES.

Name.....

Address.....

.....

CAMERA, LENS, SHUTTER	LOW	HIGH
Clarus, 2.8 Wollensak, FP, FI.....	\$ 22	\$ 36
CONTAX-S, 1.9 Primoplan.....	79	101
Contax-S, 2.0 Biotar, pre-set diaphragm.....	118	140
Contax-S, 2.0 Biotar, FP.....	74	96
Contax-S, 2.8.....	70	90
Contax-S, 2.9.....	60	81
Contax-S, 3.5 Tessar.....	62	83
Contax-D, 1.9 Primoplan, (pre-set).....	114	138
Contax-D, 2.0 Biotar.....	90	120
Contax-D, 2.0 Biotar, pre-set diaphragm.....	120	150
Contax-D, 2.8 Tessar.....	89	110
Contax-D, 2.8 Tessar, pre-set diaphragm.....	110	135
CONTAX I, 1.5 Sonnar.....	82	119
Contax I, 2.0 Sonnar.....	55	75
Contax I, 2.8 Tessar.....	41	69
Contax I, 3.5 Tessar.....	40	64
Contax II, 2.0 Sonnar.....	77	99
Contax II, 1.5 Sonnar.....	112	135
Contax II, 2.8 Tessar.....	70	99
Contax II, 3.5 Tessar.....	68	85

MODERN'S CHRISTMAS SHOPPING GUIDE

Problem: to find the right gift for a photographer. Suggestion: start with the equipment he has and add accessories. MODERN's Christmas Shopping Guide lists accessories ranging from rapid winds to underwater housings. In it you will find ideal presents to complete the Christmas of your photographic friends!



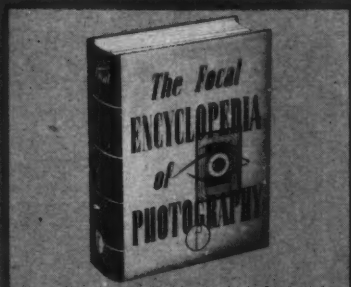
To color your black-and-whites: Marshall Photo-Oil Color Pencils. 18 assorted transparent colors with instructions, \$4.75. Included in Marshall Gift Package. John G. Marshall, 167 N. 9 St., Bklyn., N. Y.



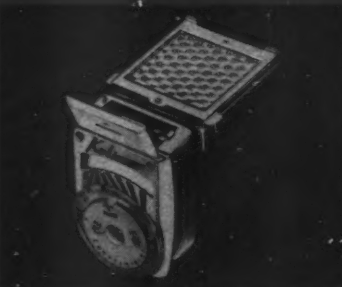
Marshall's Gift Package contains their complete line of photo coloring accessories at a saving of over 10%. \$24.95 everywhere or write John G. Marshall Mfg. Co., 167 N. 9 St., Bklyn., N. Y.



For hand coloring photos: Marshall's Master Set of transparent, permanent, Photo-Oil Colors, \$19.95. Included in Gift Package. John G. Marshall Mfg. Co., Inc., 167 N. 9 St., Bklyn., N. Y.



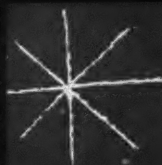
The Focal Encyclopedia of Photography has all the answers to questions on photographic theory and practice. \$20 at your dealer or book store. Macmillan, 60 Fifth Ave., New York 11, N. Y.



A meter for all photographers! Scales for ASA, LVS, movies and Polaroid exposure nos. 64X booster cell for low light. Kalimar B-1, \$11.95 at your dealer. Kalimar, 1909 S. Kingshighway, St. Louis, Mo.



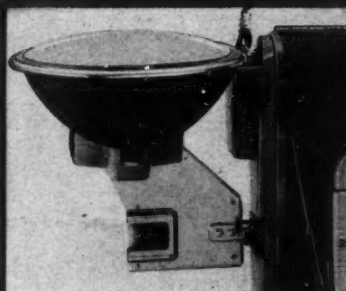
Moviemakers! PM Compact V-Pak barlight patented metal case saves room and eliminates danger of hot bulb damage. \$12.95 (\$18.95 with lamps) at dealers. Arel Inc., 4916 Shaw Ave., St. Louis 10, Mo.



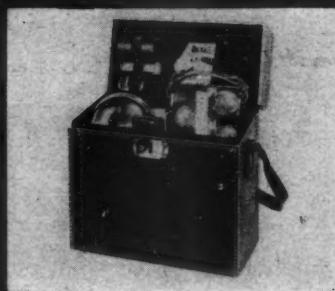
ACCESSORIES



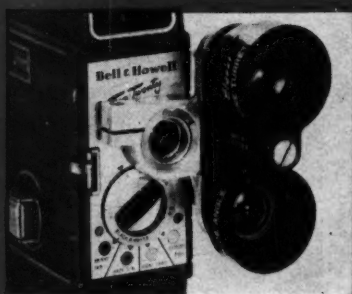
Ideal for traveling Land camera users. Postcarders make it possible to snap a picture, convert it to a postcard, on the spot. \$95 for 25 at your local camera store. Polaroid Corp., Cambridge, Mass.



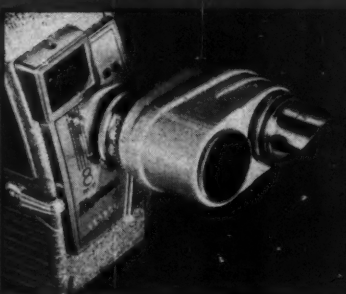
Picture in a minute fans! Bounce flash makes subjects look natural and relaxed. #291 Bounce Flash Bracket for Models 80, 80A, 150, 800, 110A, \$2.95 at your dealer. Polaroid Corp.



To complete the Christmas of Land camera owners: Model 309 Compartment Case. Holds nine separate items. For all Land cameras except Highlander. \$24.95 at your dealer. Highlander Case, \$19.50.



You can convert your single-lens movie camera to turret operation with the Elgeet Cine Turret. \$39.50 for complete turret assembly including two Elgeet lenses, at camera stores everywhere.



Line up arrow with "floating" needle—get correctly exposed movies automatically. Elgeet Auto Ex, combined f/1.9 lens and exposure meter, fits D mount 8mm movie cameras. \$49.50 at your dealer.



For home movie makers! Deluxe Magic Master Letter Set makes titles without pins, magnets, tabs, glue; no need for close-up lenses. \$12.95 at your dealer. Joseph Struhl Co., 540 Atlantic Ave., Bklyn., N. Y.



No calculations necessary to determine proper exposure with the Ikophot Rapid. Direct readings for any type of film or shutter. \$25 with case at your dealer. Carl Zeiss, Inc., 485 5th Ave., N. Y. 17, N. Y.



Mount transparencies in Multi-mats for easy viewing on the Idealite illuminator. Unit is heatless, compact; lighting is even and color balanced. \$24.95 at your dealer. Ideax, 150 Fifth Ave., N. Y. C.



A collection of the finest in contemporary photography: *International Photography Year Book 1958*, ed. by Norman Hall and Basil Burton. \$6.95 at your camera store, or write AMPHOTO, 33 W. 60, N. Y.

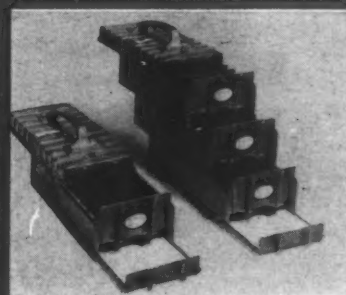
make ideal gifts



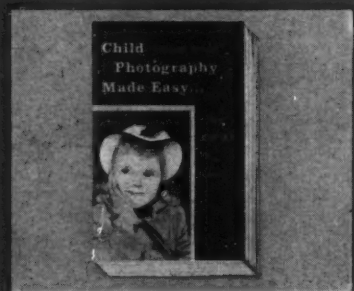
A gift for the whole family! 8 and 16mm films for every occasion, \$1.95 and up. Cartoons, comedies, westerns, sports, adventures, travel. Order from your dealer. Castle Films, 1445 Park Ave., N. Y.



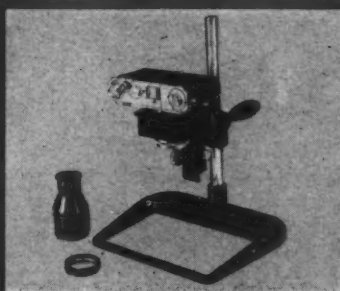
To carry cameras: Kent top grain pigskin Gadget Bags. Foam rubber lining protects equipment; five sizes \$9.95 to \$37.50 at your local dealer. Kalimar, Inc., 1909 S. Kingshighway, St. Louis 10, Mo.



A file which grows with your slide collection! Add-A-Tray Starter Files from \$3.50; three drawer unit, \$6.95. At your photo dealer, or write Portable Slide Mfg. Corp., 360 Hendrix St., Brooklyn 7, N. Y.



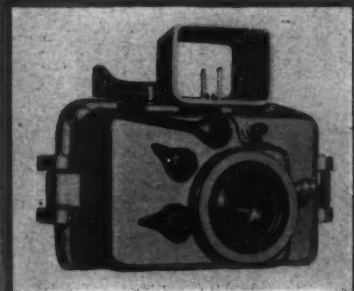
For photographic parents: Josef Schneider's *Child Photography Made Easy*. The psychology and photo techniques for taking pictures of children. \$4.50 at your dealer, or write AMPHOTO, 33 W. 60, N. Y.



For macrophotography and copying: the Nikon Repro Copy Outfit. Unit can be hand held, positioned on flat surface or tripod mounted. \$99.50 at your local camera store. Nikon, Inc., 251 4th Ave., N. Y. C.



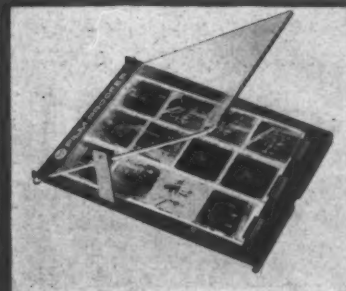
Smallest, lightest speed light for use with all cameras. Minox electronic flash unit. \$82.50, less battery; adapter for cameras other than Minox, \$6.95 at your dealer. Kling, 257 4th Ave., N. Y. C.



Perfect for the skin diving camera man! Model 35A Under-Sea Housing is available for a variety of 35's. \$99.50 to \$139.50. See your dealer, or write Wollman-Schmidt, 352 7th Ave., N. Y. 1, N. Y.

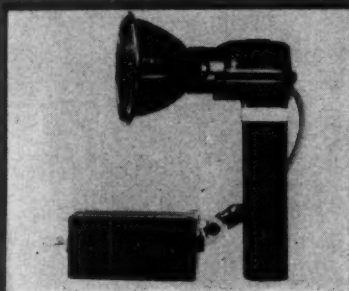


Tiffen Polaroid Rotoscreen lets you see results before you shoot. Darkens blue skies with b & w and color, eliminates glare. \$17.95-\$23.95 at your dealer. Tiffen Mkt. Co., Roslyn Heights, N. Y.

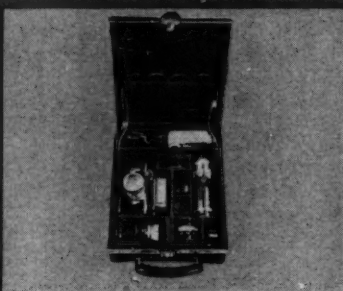


Proof print an entire roll of film (35mm to 620) on one 8 x 10 sheet. HPI Film Proofer (\$9.95) also serves as borderless enlarging easel. At your dealer. Hudson Photographic Ind., Croton-on-Hudson, N. Y.

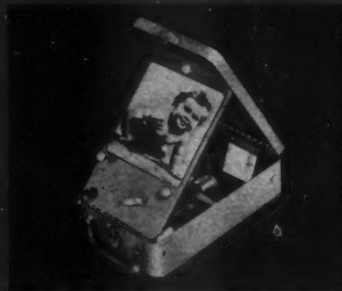
ACCESSORIES



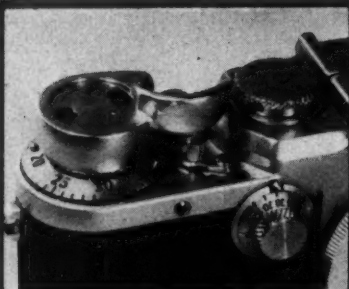
Ideal speed light for pictures at home. Mighty Light AC weighs $\frac{1}{2}$ lb., gives 100,000 flashes per tube. Guide number of 30 for Kodachrome. \$48.95 at your dealer. Speedlight Center, 128 W. 32 St., N. Y.



Velvet lined, genuine leather Compartment Cases for your camera and accessories. Available for Leica, Exakta, Rollei, Bolex, etc. \$29.50 up at your dealer, or write Aetna Optix, 350 W. 31 St., N. Y. C.



Enjoy precious color slides on 6 x 6 screen. Leave room lights on with COC Auto. 35mm Projection viewer. All metal fold-away body. Ideal for home or office. \$37.50 at dealer. COC, 101 W. 47, N. Y.



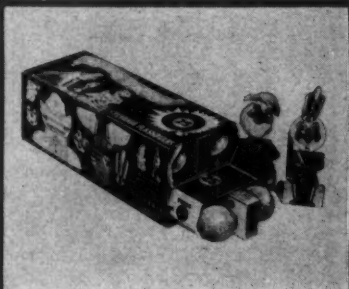
Tech Rapid Advance Lever for Leicas attaches to winding knob, need not be removed to shut camera case. For "f" and "g" series, Model IIIc, \$4.95 at your dealer. Tech Photo, 8645 Bay Pkwy., Bklyn, N. Y.



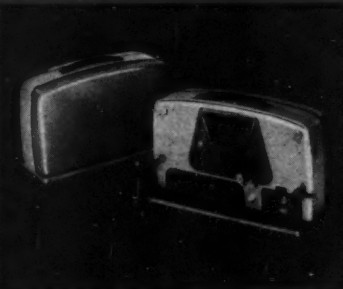
A simple-to-operate meter—just point it and read exact lens settings for movies or stills, black-and-white or color. GE Mascot II, \$9.95 at your dealer. General Electric, 40 Federal St., Lynn 3, Mass.



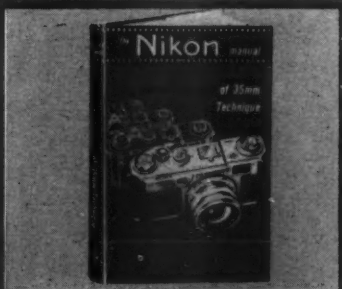
Automatic diaphragm wide-angle lens for Exaktas. The Travegon 35mm has settings from f/3.5 to f/22, sells for \$99.50 at your dealer. Agof Schacht Lens Corp., 160 5th Ave., N. Y.



Flash for Christmas! Sylvania's Christmas Package of Press 25 or M-2 bulbs. Cutout figures on the packs make attractive holiday decorations. At your dealer. Sylvania, 1740 Broadway, N. Y. 19, N. Y.

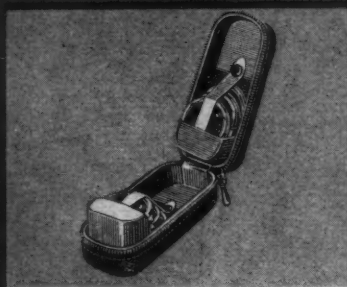


The perfect gift for versatile movie makers. 8mm Muray Portable Editor and Viewer weighs only 4 lbs. \$36. See it at your local dealer, or write Voss Photo Corp., 601 W. 156 St., New York 32, N. Y.

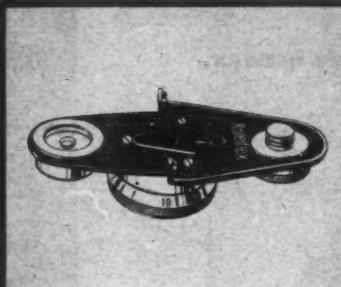


Nikon users in particular! 35mm camera men in general! The Nikon Manual by George B. Wright contains a complete library of information in one volume. \$5.95 at your dealer. AMPHOTO, 33 W. 60, N. Y.

make ideal gifts



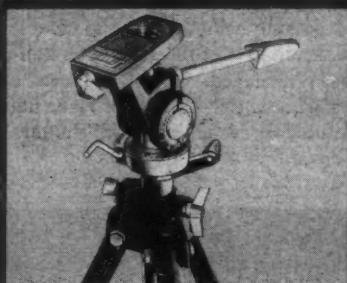
Rollei photographers: a kit of six Rollei-mounted color compensating filters insures perfect transparencies. Use filters singly or in combination. \$49.95 at your dealer. Burleigh Brooks, 10 W. 46, N. Y.



For landscape-minded Rollei users: Panorama Head. Has click stops for partial or full 360° panoramic views. Fits all models. \$13.95 at your dealer. Burleigh Brooks, Inc., 10 W. 46 St., N. Y. 36, N. Y.



Handiest flash for Rollei users, the Rolleiflash has BC circuit, bayonet-mounts to camera for direct flash. Arm length extension cord. \$24.95 with case at your dealer. Burleigh Brooks, 10 W. 46 St., N. Y.



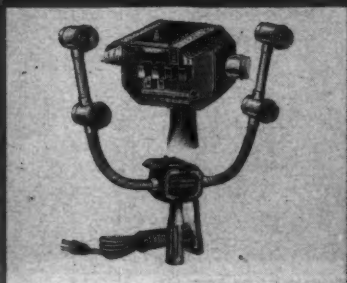
Excellent for movies or stills. Stanrite Superpod has gear elevator, horizontal gear for smooth movie panning. Three section model, \$22.95 at your dealer. Testrite, 133 Monroe St., Newark 5, N. J.



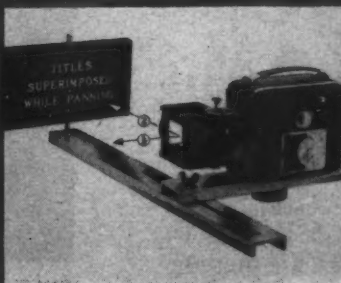
You can know which filter to use for perfect color balance in any light, with any film. Gossen Sixticolor Color Temperature Meter, \$39.95 at your dealer. Kling Photo Corp., 257 4th Ave., N. Y. C.



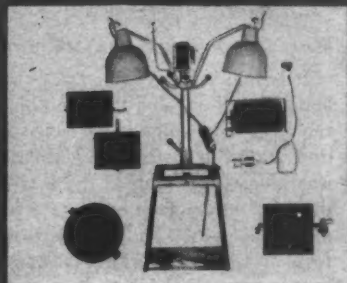
Compact, luxury leather cases for complete camera outfits. Each accessory held in suede-lined clamp. For Contaflex III/IV, I/II, Retina IIC/IIIC; \$47.50 at your dealer. Kling, 257 4th Ave., N. Y. C.



Mayfair Flexmaster makes indoor movie making easier. Light direction fully adjustable for bounce or direct lighting. \$14.95 at your dealer. Mayfair Mfg., Mayfair Bldg., Brooklyn 11, N. Y.



You can superimpose titles on film while shooting! 3 V and Panoramic Titrer fit all 8 and 16mm movie cameras. \$39.50 at your dealer or write Davis & Sanford, Dept. MD, 25 Ave. E, New Rochelle, N. Y.



8mm movie fans can make professional titles with the Bolex 8mm Titrer. Basic titler, \$37.50; complete titler and accessory kit, \$99 at your photo dealer. Paillard Inc., 100 6th Ave., N. Y. 13, N. Y.

HOW TO BUY, TEST, REPAIR A USED CAMERA

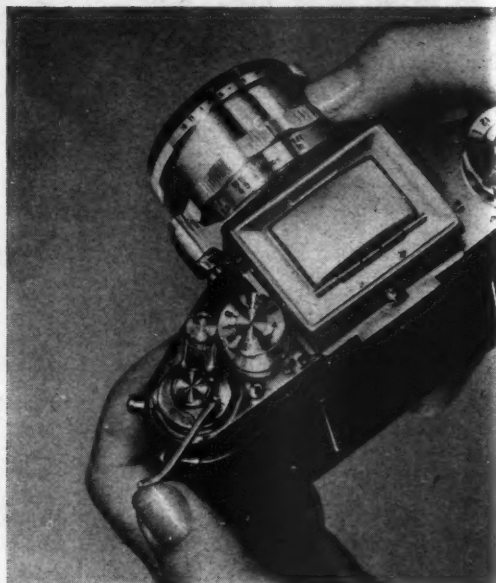
Part I

6-POINT STORE CHECK

A PRECISION INSTRUMENT does not improve with use. Beware of the camera which has obviously seen heavy duty. Professionals rarely use their cameras inside the case and have even been known to use them in the rain. Amateurs usually regard their equipment as if it were a part of them. Many times the camera and not the final photograph is their symbol of photographic achievement. But even with careful use a used camera may have been dropped or jarred. Even if the camera looks new to you in the store, test it carefully. Look closely for dents. Check for repainted leather, which might mean that the camera has had much use and was "dressed up" for the sale.

Most important check: the lens

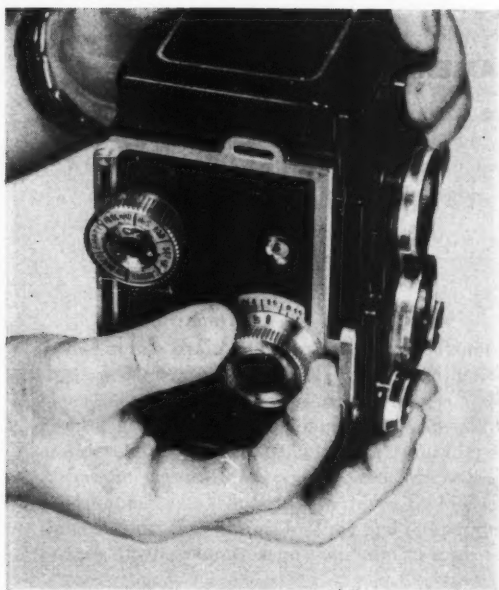
It is important to remember that you do not need a better lens for color than for black-and-white photography. A lens which is corrected for chromatic aberration transmits equal focal lengths for each different wave length of light. If the lens weren't corrected for this aberration, then each wave length would focus on a different plane and therefore would produce out of focus images. In checking the camera in the store, most people open the back to look at the camera's interior, not knowing what they are looking for. Use the Six-Point Store Check described here before you purchase a camera. If you feel that it does not pass the check, then reject it. If it does pass, then take it home and make the tests, with one roll of film, which are described on pages 124 and 125.—THE END



WIND SHUTTER. Film and shutter winding mechanism should operate smoothly. If the camera has been dropped, some part of the shutter or film wind may have been damaged. Operate camera at all shutter speeds. The shutter should not make unusual noises. Check slow speeds closely since shutters generally break down first at these speeds.



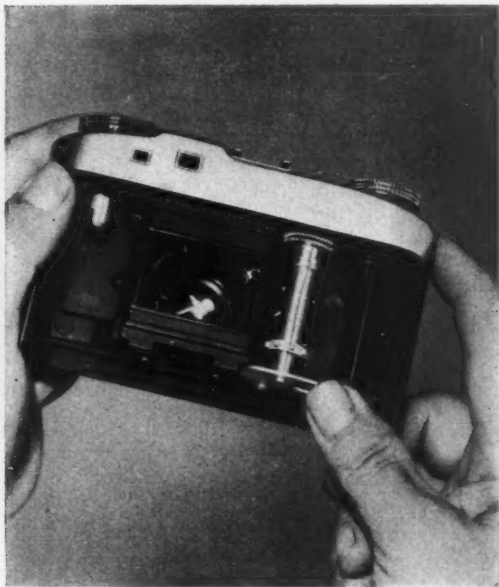
CHECK PRESSURE PLATE. Rough ridges scratch film. A few smooth scratches on the plate will do no harm, but if there are many scratches, you may get unwanted flare on your film. (Normally, light passing through the film is absorbed by the black pressure plate. When too much shiny metal shows, light is reflected, causing flare.)



INSPECT FOCUS ALIGNMENT. Focus on an object at infinity. This may be done by pointing the camera out the door of the camera store and focusing on a subject in the distance—a building or pedestrian across the street. The infinity mark on the focusing knob or lens mount should line up with the focus arrow.



ROCK LENS. Focus lens at about three feet so play will be at the maximum. Then rock lens to reveal excessive play. Lens should be checked for uneven coating, dirty interior, cracked elements and faulty or rusty diaphragm. Beware of used cameras displayed with filters on the lens. Chances are that some defect is being hidden.



EXAMINE CAMERA BACK. Check for broken, rough sprockets. Rust should be absent from all camera parts. An excessive amount of scratches is not desirable. If the camera is made of plates which have been screwed together, check to see if screws have been removed and replaced. Rangefinder should be checked for clearness and brightness.



TEST MOVING PARTS. If the parts fit too tightly they will wear out fast. If they are too loose, then the excessive play might cause improper alignment and thus malfunction of the camera. The older the camera, the more likely that the movable parts have seen heavy use and therefore are not functioning properly.

HOW TO BUY, TEST, REPAIR A USED CAMERA
Part II

4-POINT PICTURE TEST ON FILM



SHARPNESS AND COVERAGE. Photograph brick wall from 6 ft. Camera must be parallel so parallel lines do not converge. Make one photo at widest opening and one closed down three stops. Corner sharpness should decrease when lens is only slightly wide open.



FOCUS TEST. Take full face photo of a friend. Focus camera on eyes. Use widest lens opening and shoot from $3\frac{1}{2}$ ft. or less. In resulting print, eyes should be sharp. If eyes aren't sharp and nose or ears are, lens is not properly aligned with camera or focusing mechanism.

A COMPLETE, near-professional camera test can actually be made on one roll of film. While many photographers feel they're not really doing a full test unless they shoot complicated test charts, it's actually not necessary. By shooting everyday subjects outdoors, you can make the camera test in fifteen minutes of shooting time.

When you make the four point picture test, use:

1. as fast a shutter speed as possible
2. cable release
3. tripod
4. fine grain film and developer
5. correct exposures
6. extreme care in focusing

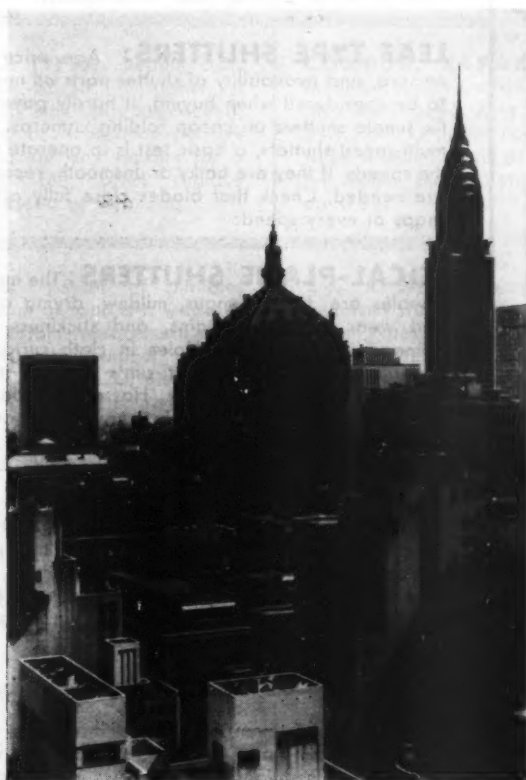
Use a fine grain film such as Kodak Panatomic-X, Adox KB 14, or Perutz Pegrano 14. A photoelectric exposure meter for all exposure readings is a necessity. Use the manufacturer's recommended film speed rating and developer for the particular fine grain film you use. A few fine grain developers: Kodak Microdol, Edwal Thermofine, FR X-33B, Ansco Finex-L. Follow directions and develop film using time and temperature procedure. If you plan to send your film to a professional

photofinisher, specify developer and development time.

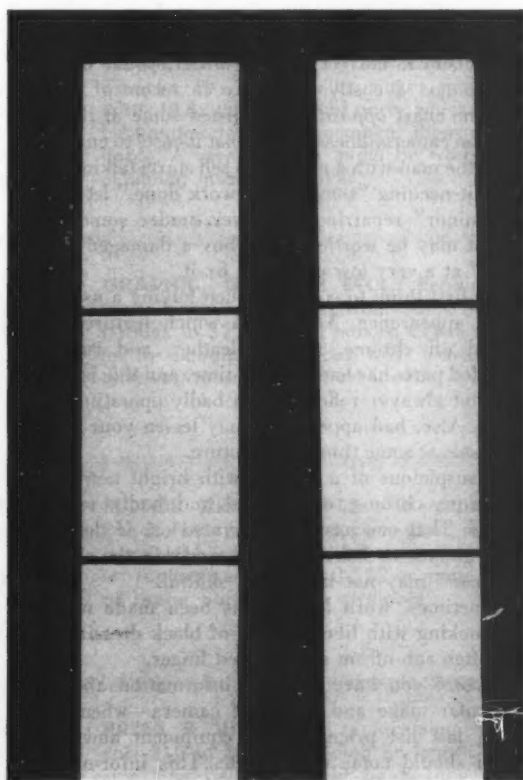
To evaluate sharpness of the negative, make enlargements of a size which will meet your future demands. 11 x 14 is tops for most people. Use a good condenser type enlarger which has a proven lens. Focus carefully with the lens wide open and make the exposures with the lens set at about f/8 or f/11. Glossy paper will produce prints of maximum sharpness. Follow the paper manufacturer's recommendation for developer, its dilution, temperature and time of development. Be sure your enlarger is rock steady. No valid evaluation can be made from prints which have been produced by a shaky enlarger.

Up-to-date lenses are corrected for many aberrations—deficiencies which cause a lens to produce an inferior image. Some aberrations may cause straight lines to seem curved on the negative. Others produce overall unsharpness, objectionable falling off of resolution in the corners of the photograph, and distortion of round objects.

Don't be satisfied with a lens having such deficiencies. Take it back!—THE END



INFINITY. Focus camera on object at infinity (over 60 ft.). Infinity mark on camera's focusing knob or lens mount should line up properly. Make photo, check sharpness. If focusing mount has been damaged, you may not be able to focus rangefinder at infinity.



CONSISTENT SHUTTER. Shoot clear sky at each shutter speed (adjusting lens opening to keep constant negative exposure). Each frame should have equal density. Erratic focal-plane shutter will produce a gradual density increase in a single frame.

DON'T GET STUNG!

Steer clear of cameras that need fixing. Here's what repairs cost.

THE MAIN REASON for buying a used camera is to save money, and the camera you buy *may* be a bargain, if it is really in good working order.

If it isn't in correct working order, your "bargain" can become a costly adventure in terms of repairs.

In the chart *opposite* we've listed some of the more common camera illnesses and what it costs to cure them. When the man with a camera to sell starts talking glibly about it needing "some minor work done," let him do the "minor" repairing. However, under some conditions it may be worthwhile to buy a damaged camera "as is" at a very low price and fix it.

The first thing to consider when buying a used camera is appearance. No camera which features dents, rubbed off chrome, tattered leather, and rusted or corroded parts has had a gentle time, and this is usually (but not always) reflected in a badly operating mechanism. Also, bad appearance may lessen your chances for resale at some time in the future.

Be suspicious of a camera with bright new leather and worn chrome, or chipped and badly repainted enamel. That one has been operated on. If the screws carry gouges or heavy scratch marks in the slots, the "surgeon" may not have been skillful.

Sometimes, worn leather has been made nice and new looking with liberal doses of black dressing. This will often rub off on a dampened finger.

Be sure you have accurate information about this particular make and model of camera—when it was made, last list price, optical equipment and shutter which should come with it, etc. This information is available only in the *Camera Buying Guide* in this issue. It's a valuable reference—keep it handy.

Does the camera under consideration have flash synchronization built in, and if so is it a factory installation? The *Camera Buying Guide* gives details on this point. If it has no sync, is it (*Continued on page 132*)

LENS ALIGNMENT: If the lens is not parallel to the film plane, overall sharpness will be affected. This generally takes the form of a gradual decrease of sharpness toward one end of the negative. Any visible deviation from parallelism should be corrected. A loose or wobbly lens mount also affects focus. This may not be a simple "tightening up" job.

RANGEFINDERS: If mirror and optics are cloudy, patchy, or scratched, it's a poor risk. Adjustment of a good rangefinder alone is not an expensive job, but the rangefinder may be out of whack because the lens flange is bent or damaged, or the camera front pushed in, thus upsetting the lens-to-film distance. All these ailments add up to an expensive cure.

REFLEX VIEWING: Check mirrors in reflex cameras for discoloration, cloudiness, desilvering, many scratches. Check twin-lens reflexes by looking through viewing lens. Move focusing knob to bring mirror surface into focus. With interchangeable single-lens reflexes, remove the lens and look at the mirror. Shake the camera; does mirror or ground glass rattle loosely?

LEAF TYPE SHUTTERS: Age, price of camera, and availability of shutter parts all need to be considered when buying. It hardly pays to fix simple shutters on cheap folding cameras. In multi-speed shutters, a basic test is to operate all the speeds. If they are balky or unsmooth, repairs are needed. Check that blades close fully after snaps at every speed.

FOCAL-PLANE SHUTTERS: The main troubles are: holes, fungus, mildew, drying out, and wear in cloth curtains, and stickiness or damage in gear trains. Holes in cloth curtains are often caused by direct sun's rays on the lens. Metal shutters (Contax, Hasselblad) don't mildew, seldom get holes, but have their own expensive repair problems.

FILM TRANSPORT: Damage to this may cause overlap, skipped pictures, multiple exposures on one frame and none on others. In 35mm cameras a damaged transport can rip the film, drop chips into the shutter mechanism and foul it up completely.

BELLOWS: Even one tiny pinhole can severely fog your film. Check for leaks by inserting a bare-bulb flashlight in the bellows in the dark. Repairs with black tape, or cement and blacking are temporary measures and not to be trusted for important picture taking. For best results, replace a bad bellows.

35MM: Most frequent alignment troubles are bent camera fronts, improperly mounted flanges for interchangeable lenses, wobbly lens tubes. Repairs cost \$5-\$25 and up if the camera has been abused.

FOLDING & PRESS: Check struts and lens mount for wobble, rivets for looseness; front standard, bed, tilts and swings for smooth movement, rigid locking. If badly damaged, avoid; such repairs are often unsuccessful.

TWIN-LENS REFLEXES: Geared focusing types (Ricohflex, Kodak Reflex, etc.) seldom get misaligned. Repairs may run \$2-\$5. Where two lenses focus on a moving platform (Rolleis, etc.) misalignment repairs average \$15-\$25, may hit \$45.

SIMPLE MAINTENANCE: Where it is only necessary to adjust the rangefinder itself, and the rest of the camera is OK, the cost may run from \$4-\$8.

OPTICAL REPAIRS: It may cost up to \$40 to replace or resurface a front surface mirror. Recementing, where necessary, is extra. New prisms may run \$20-\$30, the latter price for old Contax types.

MECHANICAL REPAIRS: A bent lens flange may cost from \$2.50 to \$20 to adjust. Checking and adjusting lens focus averages \$8.50 (with luck). Repairs are useless if your lenses are not actually intended to work with that exact make of camera.

MIRROR TROUBLES: Replacement runs from \$3-\$5 in small cameras, to \$10 for large reflexes. Deviation from 45° angle is uncommon, may cost \$10-\$15 to repair.

GROUND GLASS: Resetting one to make it seat firmly is a minor job. In Rolleis (and some others) the ground glass must be of an exact thickness, as supplied by maker. Replacement costs \$2.50-\$5.

FIELD LENSES: Be suspicious of non-factory installed field lenses. It is always safe to have one on top of the ground glass. To install under ground glass may cost \$10-\$12 including focus compensation. Check sharpness for entire focusing range.

SIMPLE TYPES: Repair costs average \$3-\$5. If higher, it probably won't pay to proceed. Makers of some inexpensive cameras do any repairs for a nominal fee, often replace units instead of repairing.

COMPUR, RAPAX, ETC: Minimum repair charge for complex multi-speed types is \$6.50-\$13. However, if the camera has to be stripped to get at the shutter (Rollei, Ikonflex, etc.), figure up to \$30.

LARGE PRO TYPES: Old Compound, Compur, Ilex and similar makes may be costly to fix due to lack of parts, which must be handmade, and age makes them unreliable. A very fine lens might be worth remounting in a new shutter.

35MM: Repair of pinholes with paint or tape is a waste of time. Curtain replacement costs \$15-\$40. Mechanical repairs range from \$6-\$20, plus parts.

2 1/4 x 2 1/4: Charges are generally about the same as for 35mm types. Check for dents in metal shutters (Hasselblad) due to bumping with film magazines. This can be a troublesome job.

GRAPHIC, GRAFLEX, ETC: Repairs to these large curtains run from \$8.50 for a Graflex to \$25 in other makes. Check shutter for smooth, continuous, brisk movement at lowest tension or slowest speed.

SIMPLE TYPES: The trouble is usually in a knob or simple ratchet, costs \$2-\$3 to repair, if parts are available. Replacement of missing ruby windows should be about \$1-\$2.

AUTOMATIC OR SEMI-AUTO: Cost depends on complexity of mechanism and how hard it is to reach. Simple 35mm types can be fixed for about \$5. Complex 35's and reflexes may be \$20 and up.

MOTOR DRIVEN TYPES: To put an old Robot, Foton, or similar type in good shape is a ticklish job and may be expensive. Motor replacement runs \$10-\$20 or more. Not all repair parts are still available.

ROLL FILM CAMERAS: Replacement cost range is \$3.50-\$8.50, depending on size, ease of installation. Check if bellows are glued in place or held by flange; latter is better.

35MM: Costs are similar to those for roll film cameras. For any camera, don't "economize" with cheap bellows material. Get the best quality available.

PRESS & VIEW: A replacement may cost \$10 to \$40 depending on length and size. The bellows should be flexible and ample enough to use full tilts and swings, but must not sag into the picture area at full extension. Check these points.

4 New Kodak

And you can see these brilliant new members of the Pony and Signet tribes at your dealer's right now.

The Kodak Pony II Camera is priced low—only \$26.75 for a camera that has all the *essential* controls you need for color work. Lens is Lumenized, well color-corrected, and fast enough ($f/3.9$) for normal daylight or flash use. The camera accepts direct-fitting Kodalite Flashholder and is synchronized for Class F and M flash lamps. The shutter speed is fixed. You compute exposures quickly with EVS cards—focus on footage scale or by zones ("close-ups," "groups," "scenes").

The Kodak Pony IV Camera gives you an $f/3.5$ Kodak Anastar Lens, 44mm, EVS settings from 4.5 to 17, and a shutter with speeds from 1/30 to 1/250 second, plus B. Direct-fitting Kodalite Flashholder is synchronized for 1/30 Class M, 1/30 and 1/60 Class F, all speeds with Class X. In addition to zone focusing and footage scale markings there's a depth-of-field scale. Yet the Pony IV is still only \$39.95.

The Kodak Signet 30 Camera is ideal for available-light work, color indoors or out. Has new $f/2.8$ lens. Automatic leader wind-off helps you load film fast. Single-stroke thumb-lever winds film, cocks shutter. Direct-fitting flashholder fastens securely on camera. Has 8-speed shutter, click stops. \$55.00.

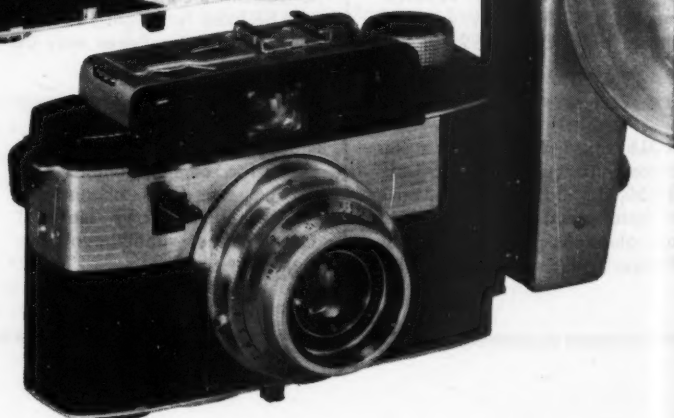
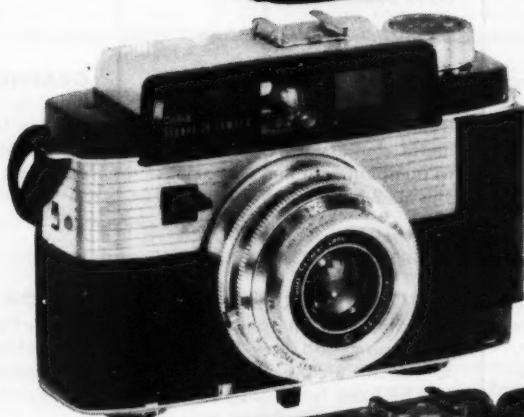
The Kodak Signet 50 Camera has an accurate built-in exposure meter. And it comes with direct-fitting Kodalite Super-M 4 Flashholder, with 3" and 4" reflectors for M-2 and No. 5 flash lamps. The built-in meter reads in EVS numbers. The lens is the same brilliant $f/2.8$ as on the Signet 30. The Signet 50, meter, flashholder and all, is just \$82.50.



Both of the new Kodak Pony cameras give you large optical finders, modern EVS settings, zone focusing and footage scale. Both accept direct-fitting flashholder. Both have no-thread film loading, double-exposure prevention, and a set of EVS cards.



Both of the new Kodak Signet cameras have fast $f/2.8$ Kodak Ektar Lens, projected frame finders, automatic leader wind-off, and single-stroke thumb-lever wind. You have EVS settings from 4 to 17, shutter speeds from 1/4 to 1/250 second, zone focusing, footage scale, and depth-of-field calculators.



Miniatures

Four (4) brand-new miniatures by Kodak.

We're excited about them.

We think you will be, too.

You'll see them at your dealer's, first chance you get. Meantime, here's the story in words.

Let's talk Signet Cameras...

The moment you snap open the back of a Kodak Signet 30 Camera the fun begins. Loading is a quick, simple, no-thread proposition. Automatic leader wind-off, plus a single-stroke thumb-lever advance, leaves you ready to shoot in less time than it takes to tell it.

The Signet 30 has an $f/2.8$ Kodak Ektanar Lens. This is a 44mm, 3-element formula that gives you the wide field of coverage, and the extra depth of field you want for available-light work or shooting color under off-beat conditions.



Look through the *projected frame finder*. You'll see parallax markings to guide you close up. And you'll see a signal to advance this film, if you've forgotten to wind. And there's a double-exposure preventer, too.

The Signet 30 comes with a set of seven EVS cards to help you determine daylight and flash exposures quickly and correctly. EVS, of course, stands for Exposure Value System. In practically no time at all it has become the standard

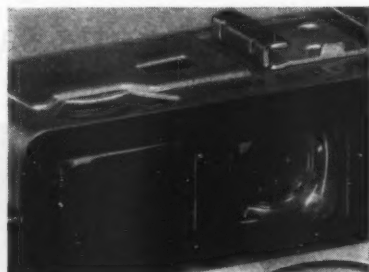


for exposure calculation. And, if you want flash, there's provision for a direct-fitting Kodalite Flashholder. Very neat.

And the Signet 50

The Kodak Signet 50 has everything the 30 has, *plus* direct-fitting Kodalite Super-M 4 Flashholder and accurate built-in

exposure meter which reads in EVS numbers.



Scratch one cult... Over to a new idea... It's in the cards

Maybe you belonged to that fanatical little band of cultists who founded and fought for the miniature camera.

Well, you're a hero.

But... your cult is dead.

It's dead because everybody now agrees that you were right. And when *that* happens—a cult evaporates and becomes the happy possession of all.

The miniature has, pardon the phrase, what it takes. For color, for available-light work, for uncanny depth of field, for convenience and for versatility, it is a remarkable photo-optical achievement.

And Kodak herewith announces four (4) brand-new miniatures—two new Pony cameras and two new Signets. You can read about them here and elsewhere, but until you actually look them over, handle and heft them, the full story will elude you. So, go call on that Kodak dealer of yours.

It's in the cards. EVS cards, that is. EVS, of course, means Exposure Value System—and the little EVS cards that come with Kodak's new miniatures (and fit right on the cameras) are the neatest means we know for putting this new exposure system to work.

These little cards (exclusively Kodak's, at the moment) put the determination of correct exposure on a rational basis. No black magic. No razzle-dazzle. Whether you work with a meter built in the camera—or slung around your neck—or merely leer at the sun, the EVS cards simply do the calculations for you, offer you choices in terms of what you want to do, and keep things neat and in order.

As we said, your dealer is the boy to give you the full fill-in.

The focusing arrangement on both the Signet 30 and 50 is interesting and practical. First of all, with the 44mm lens, you have great depth of field. To focus you make quick and easy settings by means of zones—"groups," "close-ups," and "scenes." When you want to be more precise, you have a footage scale and a depth-of-field calculator to aid you.

Now about the Ponys

The Kodak Pony II Camera is the answer to a budding color-slide maker's dreams. Simple enough for beginners, it still has the controls that the expert demands for good color work. And its modest price puts it in range of almost any photographic budget—just \$26.75.



The lens on the Pony II is an $f/3.9$ Kodak Anastar, Lumenized, color-corrected, sharp. The shutter is preset, with properly related EVS numbers to determine the aperture.

You get the seven EVS cards and the same convenient zone focusing and footage scale as on the Signets.

There's quick, no-thread film loading, a bright, accurate optical finder, double-exposure prevention, and provision for direct-fitting Kodalite Flashholder.

The Kodak Pony IV Camera has an $f/3.5$ Anastar Lens. EVS settings from 4.5 to 17; shutter speeds 1/30 to 1/250 second, and B. And you get a depth-of-field scale, as well as zone focusing and footage scales.

Whether you want the economy of the Pony II, or the added flexibility of the Pony IV, you're getting true Kodak quality.

See the two new Signet cameras, the two new Pony cameras, at your Kodak dealer's soon. One will fit your needs and your budget. (Christmas approaches by leaps and bounds. So you might try marking this ad with appropriate hints; then leave it where the family will see.)

Prices are list, include Federal Tax, and are subject to change without notice.

Kodak

EASTMAN KODAK COMPANY, Rochester 4, N. Y.

The
Kodak
BULLETIN



Gifts &



You, of all people, know
why Kodak gifts say: "Open me first"

Christmas morning (or is it Christmas Eve in your house?) is filled with fleeting moments to be treasured. Moments that melt into the past in the twinkling of a grateful glance.

Then, all too soon, the new bicycle is old. Baby's first real doll grows battered and worn.

But you're a photographer. You know how to keep Christmas in the pictures you make as the gifts are being opened.

If there's a new Kodak camera for any of your tribe this Christmas, see that it's out front—ready to be opened and used as Christmas unfolds. Write your own Christmas carol in pictures.

Match 'em

You know cameras. You know they have personalities, capabilities, qualities—very much as people do.

So when you give, or help someone select a camera, you try to match personalities. For example—there's the extrovert who cares nothing about photography, but who rides his hobby hard—sport car rallying, perhaps, or raising cocker spaniels, or mountain climbing.

Or the gentle soul who loves his or her garden just as much in December as in May.

Then there's the horizon-bound traveler.

Or the dyed-in-the-wool camera fan. So, how do you do your camera-matching? Easy!

Kodak makes a full line of cameras, from simple to complex, cameras that



range in cost from a few dollars to many, cameras that appeal to all sorts of tastes and personal picture-making desires.

The kids, bless 'em

Boys like cameras with plenty of visible and mechanical controls.

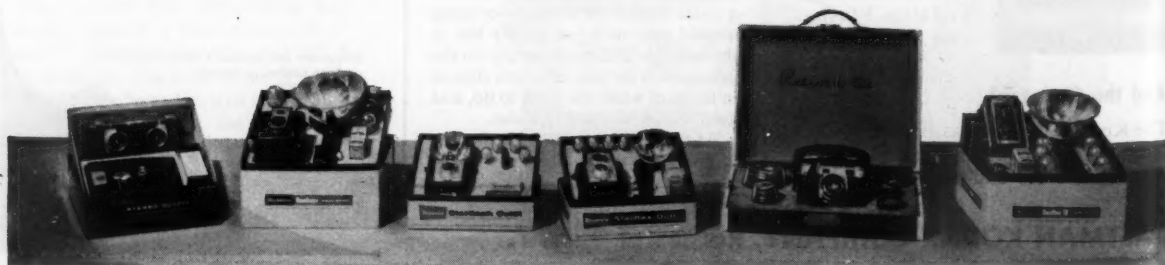
Girls like cameras for what they do—and the less machinery the better.

Thus, a boy will grin all over when he opens up a brand-new Brownie Bull's-Eye Camera. It feels right. And there are plenty of things on it to please his sense of mechanical mastery. Takes

good, big pictures in black-and-white or in color with Kodacolor Film. Its price is \$15.00. In an Outfit, with flash and all, it's \$20.95.

A girl will delight in the no-monkey-business simplicity of the Brownie Hawkeye Camera. (Confidentially, the Hawkeye is a remarkable picture maker. Try it yourself!) The price is remarkable, too. \$7.95 for the camera alone, or \$15.25 in an outfit with flashholder, bulbs, and film.

Then there are the practically classic Kodak Duaflex Cameras. Their big-picture preview finders make picture taking



wishes



a vivid experience; and the results they get are real eye openers. There's the fixed-focus Kodet model at \$17.95 for the camera alone, or \$25.25 in a let's-go kit. The Kodak model has an $f/8$ lens, with adjustable aperture and focus. Camera, \$28.50; complete Outfit, \$38.75.

If your Younger Generation is color-slide conscious, the new Kodak Pony II Camera is an inspired choice. For all the details on this new miniature, see the announcement of 4 New Kodak Minia-

Finally, if your youngsters want to meet hypo on even terms, there's no better introduction than by means of the Kodak Photo-Hobby Outfits. There's one for just \$10.75, another for \$18.25. With their own equipment, maybe the kids will leave yours alone.

Their elders, nonphotographic type

Cameras and the things to go with them are among those rare gifts which, when selected with care, please almost anyone of any age.

The nonphotographic hobbyist on your list will like a Kodak Starflash or Kodak Starflex Outfit the moment he gets it. With these cameras, technique is strictly extracurricular—the picture's the thing. But, for all their simplicity, these push-button cameras make really excellent color slides (on Kodak Ektachrome Film, 127), color snapshots (on Kodacolor Film, 127), and black-and-whites (on Kodak Verichrome Pan Film, 127). Your cost, \$8.95 for the Starflash Camera, \$16.50 for the Starflex Outfit. Swell for women who don't like "all those gadgets" too.

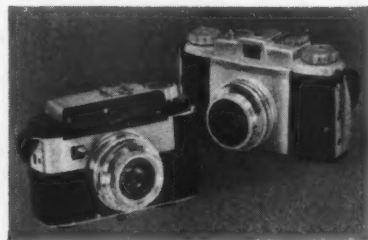
Parents get a real kick out of seeing the kids in 3-D and color. So a Kodak Stereo Outfit is tremendously exciting. It includes the handsome Kodak Stereo Camera, Kodaslide Stereo Viewer I, and instruction book, for \$99.50.

For uncomplicated movie-making we suggest the wonderfully effective Brownie Movie Camera Kit, $f/1.9$, 8mm. It has the Brownie Movie Camera, field

case, and Cine-Kodak Folding Movie Light with four reflector flood lamps. \$71.45. A simple dial on the camera's front shows unmistakably what setting to use for what light condition. Actually, movie-making is about as easy as using binoculars—and what you see you keep.

Color—color—color

We yield to absolutely no one in our respect for black-and-white photography. Someday we shall succeed in making as beautiful a negative and as rich a print as we'd like. But, meantime, color is an enchantress.



The new Kodak Signet Cameras, 30 and 50, are made to order for color. The Signet 30 is available with or without flashholder. The 50 comes with both flashholder and built-in exposure meter, which makes it quite a de luxe gift. And don't forget the new Kodak Pony IV Camera—a fine gift alone, or in Outfit version (with slide viewer)—or a Color-Slide Outfit with Kodak 300 Projector. There's more about these cameras in the announcement ad we mentioned before. Interesting reading.

Now, about you!

You're interested primarily in Christmas shopping for your nearest and dearest. But, let's face it—in all our Christmas shopping we find so many wonderful things we'd like to have, such as the Signet 50 Camera.

Or, up on Cloud 14, the fabulous Kodak Retina IIIC Outfit which is enough to make anyone gasp on Christmas morning—IIIC Camera ($f/2$ normal lens,



built-in meter, 10-speed shutter, and all), wide-angle lens component, telephoto lens component, field case, optical finder for wide-angle and telephoto, all packaged in a beautiful presentation case that converts to a slide file, plus a rich harness-leather contour bag. How much? \$394.

We almost forgot one of the best outfits of all—the Kodak Signet 40 Color-Slide Outfit. It includes the $f/3.5$ Kodak Signet 40 Camera, Kodak 300 Projector, and everything but the applause you'll reap after your first show. \$138.50 complete.

Or, if you've had a yen to make movies, another terrific outfit is the Brownie 300 Movie Outfit. \$104.70 gives you the works—Brownie Movie Camera, Brownie 300 Movie Projector, and preview screen.



The Kodak Rotary Flashholder is a swell stocking-filler, and all it costs is \$10.95. Frankly we think it's the biggest advance in flash photography since the "internal combustion" bulb!

See your Kodak dealer's outfits soon. Could be, you'll wrap up a good bit of your Christmas shopping right there.

EASTMAN KODAK COMPANY, Rochester 4, N. Y.

Prices are list, include Federal Tax, and are subject to change without notice.



Kodak

baja®

For Value and Quality...

**Baja Portable
Slide File Cases
Have No Equal!**



This Christmas it is easy to please the 35mm camera fan. No matter what his favorite automatic changer tray or magazine!

**Baja Cases Fit
All Slide Files!**

This is sure to be the brightest gift under his Christmas tree... and the most appreciated for many, many years. Made of choice 5/16" kiln dried cabinet lumber to precision standards. Sold in leading shops everywhere.

baja®

BARNETT & JAFFE, Manufacturers
6100 N. 21st Street, Philadelphia, Pa.

DON'T GET STUNG!

(Continued from page 126)

worthwhile to install it and what kind can you install? You'll get the full story on page 65.

Of all the things to check on a camera, the most important is the lens equipment. On page 124 you'll find out how to test your camera's picture taking abilities. Here are some basic preliminary points to keep in mind.

Is the lens badly scratched or chipped? A single, small mark near the edge can be touched with black paint and may not affect definition. But beware of many marks, particularly in the center.

If the lens is coated, is the coating intact or missing in patches? If damaged, the camera may have been owned by a lens scrubber and he may have rubbed off a bit of the glass surface, too.

Be suspicious of pre-World War II lenses which have been coated. Unless it was done at the factory or by a real expert, the disassembly and reassembly may have ruined it altogether for picture taking. There's hardly any good reason for coating an old uncoated lens which takes sharp pictures.

Cloudiness that can't be removed by simple cleaning may indicate deterioration of the cement. But don't be alarmed if by reflected light you see a faint rain-

bow on the front element surface. This is due to oxidation of the glass and unless it is so far gone that there is pitting or deep discoloration it is not harmful.

If something rattles inside a lens mount beware. Loose elements may indicate a need for remounting and recementing, a costly affair.

A lens barrel or mount with dents, chewed up threads and other physical damage is best left on the shelf.

In addition to the possible repairs listed on pages 126 and 127, there are some specialized items to look out for.

For example, in the Polaroid Land camera, check the inner back of the camera for rusting or deep accumulations of developer reagent spill. The two steel rollers are the heart of the camera. They must be rustfree, unscratched, and rotate smoothly and noiselessly. If not, the camera won't function. Does the film release switch or button operate properly?

If you're interested in a camera with tilts and swings, make sure all its functions are functioning, and that the locks still hold things rigidly when set. These can be expensive to repair, if worn.

Finally, the best assurance of getting a good used camera is to buy it in person from a reputable photo dealer who will back it up with a guarantee period, or even give you a trial basis arrangement.—NORMAN ROTHSCILD

MAMIYA 35

(Continued from page 109)

the lever three times to bring the film counter to the first exposure makes the camera ready for picture taking. Locking wheels on magazines are color coded in either black or red as a reminder of the type of film in the camera.

We decided that we would know more about the Mamiya after field-testing the camera. We loaded black-and-white into one magazine and color into another.

We have often found ourselves with color film in a camera when only black-and-white film would give us the speed to make picture taking possible. This meant rewinding a partially exposed roll of color film back into the cartridge and substituting the faster black-and-white—with a loss of time and pictures. It took less than four seconds to change magazines.

Fast changing magazines aren't only valuable for shooting black-and-white and color alternately—we loaded both magazines with black-and-white and had a dancer friend go through some of his routines. In the past, we have never let him finish a number without calling time out for the film changing. This time we shot all the way through without interruption—and for once didn't break his pace or mood.

We changed magazines hundreds of times during the tests. They worked as perfectly at the end as at the start. There was no indication that the locking arrangement between the front of the camera and the magazines deteriorated.

Photographic results with the Mamiya Magazine-35 were good, but to confirm our opinion that magazines and lens were aligned properly, we put the camera on an optical bench. The bench test supported our feeling that alignment was accurate.

There are other things we liked about the Mamiya. The Seikosha shutter has always been one of the quietest we have ever heard. The shutter release button on the Mamiya requires little pressure to make an exposure. That means less danger of camera jar on long exposures.

The combined viewfinder-rangefinder is easy to use. It focuses quickly and smoothly. However, we were bothered slightly by a small amount of internal reflection in the finder. You may find that the rapid advance lever has a tendency to hit your forehead if you view through your left eye. However, if you view with your right eye, there's no problem.

Price of the Mamiya is \$89.50 with one magazine. An extra magazine costs \$27.50 if you buy it with the camera, or \$32.50 if purchased separately.

—MYRON A. MATZKIN

gift
wrap
this
Yashica

I'll
take
this
one
for
myself



great new double gift idea: **YASHICA**

Yashica values are so great that you can buy *two*—one for giving, one for using yourself—at less than you would expect to pay for *one* camera of comparable performance.

Take the new Yashica-Mat for example: a fully automatic reflex with four-element lenses, shutter speeds to 1/500th, bright field lens focusing plus every other feature that makes the automatic reflex so desirable. And it's only \$75.50.

Run down your gift list now. Anyone earmarked for a fine reflex in the \$150 class? Give him a Yashica-Mat—and treat yourself to one—for that same \$150.

See all four Yashica models, including the sensational Yashica LM, with built-in exposure meter at remarkably low \$59.95.

 Yashica Inc., 234 Fifth Avenue, New York 1, N. Y.
In Canada: Anglophoto Ltd., Montreal, Quebec

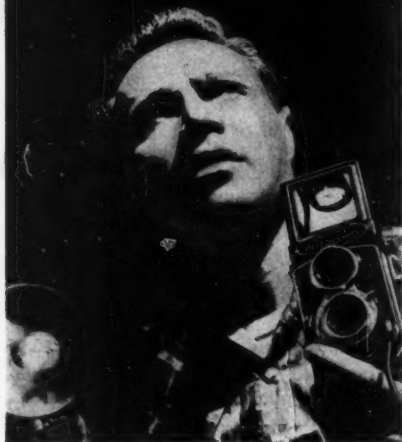
Yashica A \$29.95; case 6.00; Yashica C \$46.50; case 8.00; Yashica LM \$59.95; case 10.00; Yashica-Mat \$75.50; case 10.00

G-E FLASH NEWS

World famous
sports
photographer

HY PESKIN*

tells how to
shoot sports
pictures with
G-E #5 Flash Bulbs



"The most important element in shooting action pictures is anticipation," says Hy Peskin, the man who used three G-E #22 Flash Bulbs to shoot one of the first color action sports photos ever published (Lou Nova-Gunnar Barlund fight, 1946).

"In sports, analyze what will happen next—and be there. Don't watch the game as a spectator, but as a 'second manager'." That's how this two-time winner of the "Best Sports Picture of the Year" captured on film such famous events as the attack on Umpire George Magerkurth by a spectator (1939) and last season's Dodger-Redleg battle royal.

"The *ideal* action shot should be governed by *four* basic rules:

- 1) Let the action come to you.
- 2) Shoot for peak of action.
- 3) Shoot low, and close.
- 4) Shoot for composition.

"For these basketball shots, I used a Minolta 120 mm with Tri-X film—and G-E #5 Flash Bulbs. I shot each one of the action pictures exposed for 1/500 at f/11. This gave me plenty of light at high shutter speeds to 'freeze' action—and at small aperture for greater depth. I'd recommend these bulbs with *any* kind of camera for action shots."

**Roving sports photographer for LIFE, SPORTS ILLUSTRATED, SATURDAY EVENING POST.*

FOR SHARPER, BRIGHTER PICTURES, INSIST ON FLASH BULBS BY

GENERAL ELECTRIC



Let the action come to you—then shoot for peak of action!

"This is an exciting picture because I didn't gamble—I *anticipated* the action. The youngster on the left with arm out-thrust and the player in mid-air are at the peak of their moves. A single G-E #5, 8 feet off to the left, heightens the impact with contrasting background and strong



Shot from standing position — lacks excitement! "The players appear to be glued to the floor. Everything looks two-dimensional."



Shot from kneeling position — this is more like it! "There's an illusion of 'flight-through-space'. You can even see the sole of a sneaker."



Poor Composition—"In basketball, your subjects are almost always close together at peak of action. This picture was shot *before* the peak."



Good Composition—"If you shoot right at the peak of action, as in this sportrait, your composition problem practically solves itself."



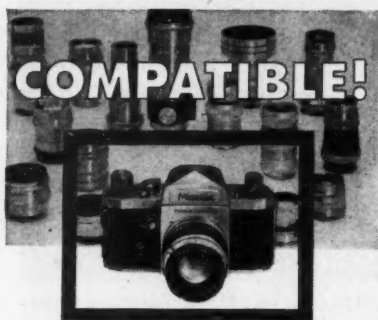
(above) Wrong! Shot with bulb-on-camera—"Players in foreground are 'burnt-up,' having gotten the bulk of the flash—while the others are progressively shrouded in shadows."

(below) Right! Shot with a single G-E #5 off-camera—"Bulb faces the center player for even light distribution. Exposed for 1/50 at f/22. An angle shot is most effective for team pictures."



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shadows. Slightly blurred feet accentuate the feeling of movement. My position was close to the sideline. I trained my camera on an area arcing from back-court, past the foul line to the basket. I followed the ball—waited for the players to come into camera range, then shot at the peak. A split-second too soon, and the result would have been ordinary."



COMPATIBLE!

**World's First
COMPATIBLE SINGLE-LENS
REFLEX System!**

**Remarkable New 35mm
Single-Lens Reflex
Takes Over**

136 LENSES

... protects your present
lens investment!



Miranda

MIRANDA-COMPATIBILITY MEANS...

with just one camera—the Miranda—you can enjoy the advantages of eleven different 35mm cameras (see list below)! **THIS MEANS...**

1. Your present lens investment is *protected* (it's the one great new "35" you can buy without wasting your present 35mm lenses and accessories)!
2. Your photographic future is *assured*... Just think! As your needs grow, you can add any of the over 136 lenses to your Miranda basic outfit!

FEATURES: Eye-level Penta-Prism viewing and focusing... FPX-Sync. Focal-Plane 1 sec. to 1/500th Shutter... Automatic Film and Shutter Transport... Pre-set Diaphragm.

ACCESSORIES: Telephoto and wide angle lenses, Waist-Level Finder, Bellowscope, Microscope Adapter, Copy Attachment, BC Flash Gun, Extension Tubes, Penta-Prism Eyepiece.

Miranda accepts the lenses and accessories of the following cameras: Exakta, Exa, Pentacoon, Praktica, Convol, Hexacon. For close-ups with adapter: Leica, Canon, Nikon, Contax.

Genuine leather
Eveready Case, \$14.95

with 50mm
Miranda-Soligor
coated f1.9
lens

\$199⁹⁵

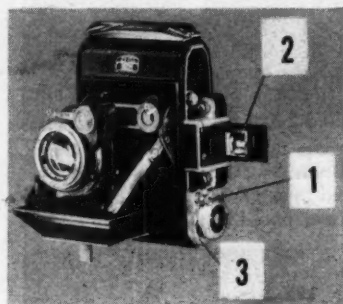
Another Exclusive, Quality Import from
ALLIED IMPEX CORP.

17 West 17th St., New York 11, N. Y.
215 W. Ohio Street, Chicago, Illinois
6918 Melrose Avenue, Hollywood, California

BUYING GUIDE

(Continued from page 100)

Lens: 75mm, f/3.5 Tessar (between 1948 and 1950 came with 75mm f/3.5 Schneider Xenar lens).



Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Double exposure prevention; body shutter release; Albada sports finder. Other features same as 1934 version.

Last List Price: With 75mm, f/3.5 Tessar, \$204; with 75mm, f/3.5 Xenar, \$162

Last Reported Used Selling Price Range in 1957: \$38-\$49

Special Identification Points: 1. Body shutter release; 2. Albada finder; 3. Made only in chrome finish.

SUPER IKONTA A (1950 model)

Film Size: 16 pictures 1 3/4 x 2 1/4 on 120 film.

Introduced: 1950 **Discontinued:** 1956
Lens: Factory coated 75mm, f/3.5 Zeiss Tessar.

Shutter: Flash-synchronized Compur-Rapid, 1 to 1/500 sec., plus B (latest version has Synchro-Compur with same range of speeds).

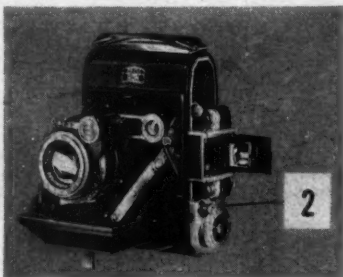
Flash Sync: Factory installed. Early versions with Compur-Rapid had X sync; later ones have M and X.

Special Features: Blank exposure prevention. Other features same as 1937 version.

Last List Price: \$102

Last Reported Used Selling Price Range in 1957: \$50-\$73

Special Identification Points: 1. Built-in flash sync; 2. Visual signal for blank exposure prevention.



SUPER IKONTA B (1935 model)

Note: Originally known as Super Ikomat.

Introduced: 1935 **Discontinued:** 1937
Film Size: 11 pictures 2 1/4 x 2 1/4 on 120 film.

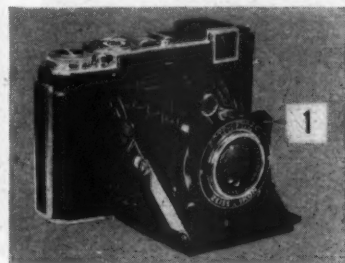
Lens: 80mm, f/3.5 or f/2.8 Zeiss Tessar.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Coupled rangefinder; built-in depth of field scale; body shutter release; double exposure prevention; exposure counter; accessory shoe.

Last List Price: With f/2.8 Tessar, \$154; with f/3.5 Tessar, \$140



Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$41-\$57

Special Identification Points: 1. Lens and shutter housing finished in black enamel; 2. Separate eyepieces for view- and rangefinder; 3. Only Super Ikonta B model without automatic film stop.

SUPER IKONTA B (1937 model)

Introduced: 1937 **Discontinued:** 1951

Film Size: 11 pictures 2 1/4 x 2 1/4 on 120 film.

Lens: 80mm, f/2.8 Zeiss Tessar.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Combined eyepiece for view- and rangefinder; automatic film stop. Other features same as 1935 model.

Last List Price: \$154

Last Reported Used Selling Price Range in 1957: \$57-\$79

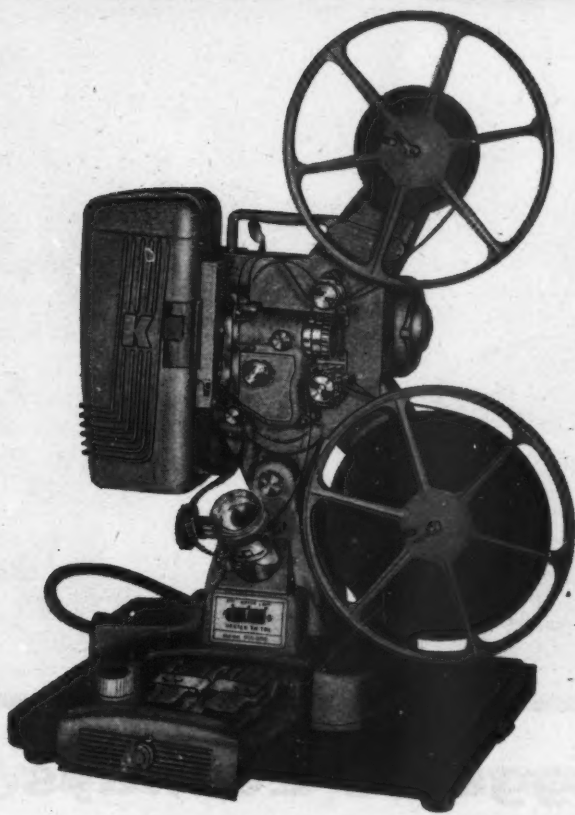
Special Identification Points: 1. From 1937 to 1948, lens and shutter housing was finished in black enamel; after 1948, in chrome; 2. Combined eyepiece for view- and rangefinder, and automatic film stop.

**SUPER IKONTA B
(Latest model)**

Introduced: 1951 **Discontinued:** 1956
Film Size: 11 pictures 2 1/4 x 2 1/4 on 120 film.

(Continued on page 140)

give
Keystone
 ALL FUN...NO FUSS!

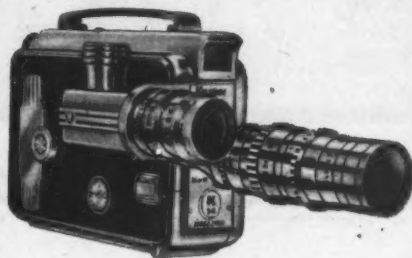


ACTUALLY A COLOR MOVIE WORKSHOP

... IN A SINGLE, EASY-TO-OPERATE UNIT. The most self-contained of all movie projectors, with built-in splicer and editor-viewer. Forward and reverse geared film wind. Automatic room light switch; precision focusing knob; f1.6 Magna-Scope lens fills 40" screen at 13 feet. Many other exclusive features. K-109D 8mm 750-watt projector, \$169.50 complete with case. Other Keystone projectors from \$74.95.



So easy to mix your shots, for more interesting, dramatic movie stories. De Luxe pocket-sized 3-lens turret weighs only 2¼ lbs. Zoom-type viewfinder, 6-second magazine loading; lock-on exposure meter. K-48A Bel Air Turret 8mm Magazine Movie Camera, with meter, 3 f/1.9 lenses, \$204.50. Other turret models, \$69.95 to \$264.50.



Smallest, smartest of all 16mm magazine turrets. Built-in focusing viewfinder automatically sets lens for correct distance. No other 16mm camera has this exclusive feature. Just focus, set turret, shoot! 25mm f/1.9 lens. K-56 16mm Twin Lens Turret Magazine Camera, \$189.50. Other 16mm cameras from \$114.50, projectors, \$169.50.

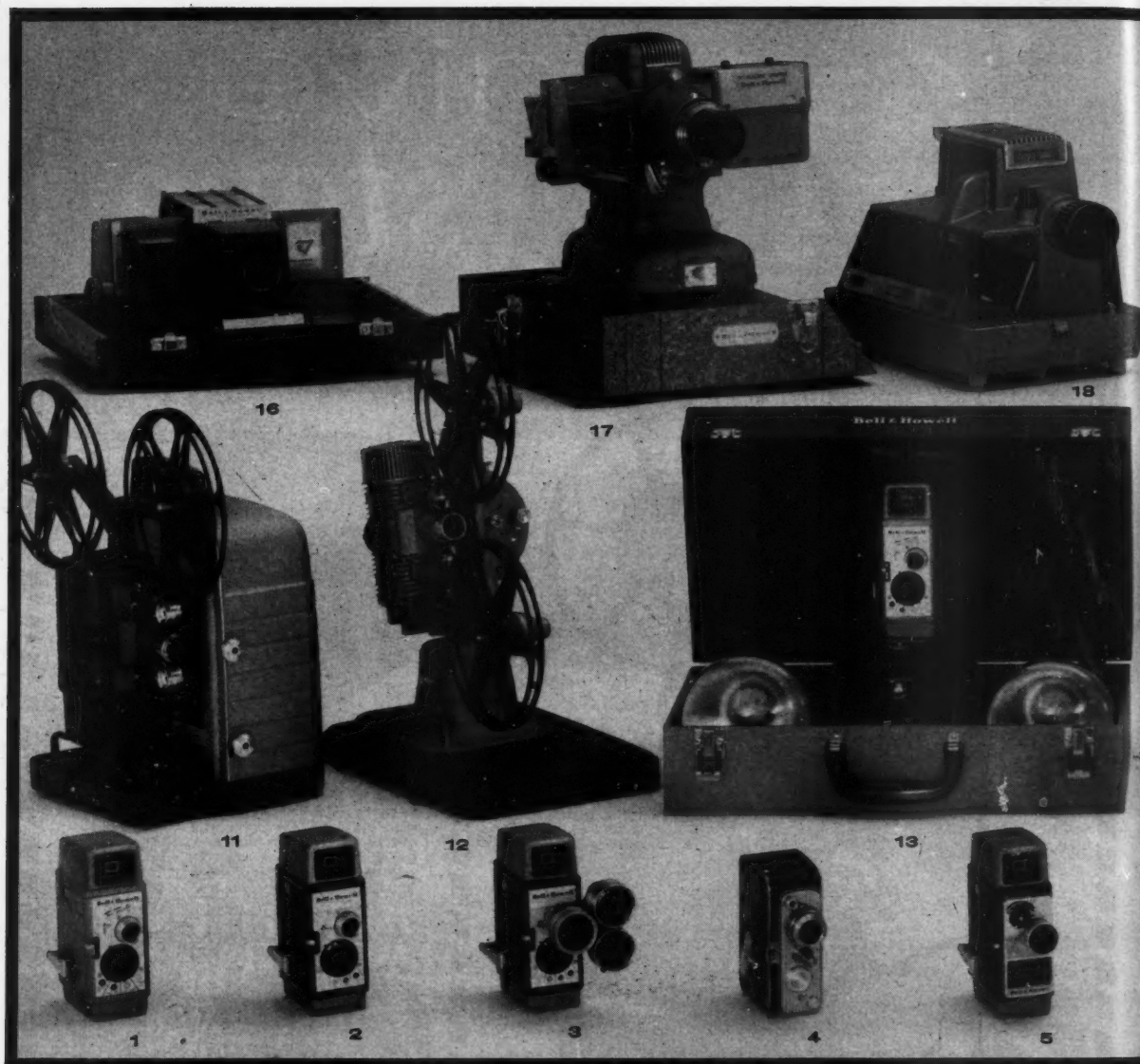
Keystone

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1. *Sun Dial simplicity.* Set the dial ... sight ... shoot. $f/2.5$ lens and giant viewfinder. 220 Wilshire, \$39.95.
2. *Sun Dial camera with $f/1.9$ lens.* One winding lasts six average scenes. 252-B Monterey Deluxe, \$59.95.
3. *Three times the fun.* Sun Dial camera has three fast $f/1.9$ lenses including wide-angle and telephoto. 252-TA Monterey, \$99.95.
4. *Magazine loaded 8mm.* You can change film fast. Has positive viewfinder. 172-A Explorer with twin turret and $f/2.5$ lens, \$169.95.

ELECTRIC EYE CAMERAS

5. *Automatic 8mm.* Lens sets itself. Nothing to adjust. 290-EE with $f/1.9$ lens, \$169.95.
6. *Automatic 16mm threads itself.* Uses economical roll film. 5 shooting speeds. 240-EE with $f/1.9$ lens, \$329.95.

7. *Automatic 16mm.* World's first Electric Eye camera. Magazine loaded. 200-EE with $f/1.9$ lens, \$329.95.

16mm CAMERAS

8. *Auto Load camera with Sun Dial ease.* Uses magazine film. Positive viewfinder. 200-S with $f/2.5$ Sunomatic lens, \$174.95.
9. *Roll film camera.* So easy a child can set its Sun Dial. Holds 100 ft. of film. 5 shooting speeds. 240-A with $f/2.5$ lens, \$179.95.
10. *Turret model.* Has automatic film threading, reserve power dial, 5 shooting speeds. 240-TA with 1-in. $f/1.9$ lens and matching viewfinder, \$284.95.

8mm MOVIE PROJECTORS

11. *Gives big pictures in small rooms with special $f/1.5$ Filmovara lens.* Has reverse and still-picture projection. 253-RY Monterey Deluxe, \$114.95.

12. *Precision projector.* Has all-gear drive, rotary control switch, swing-out lens, 500-watt lamp. 122-LR Regent Deluxe, \$179.95.

8mm MOVIE KITS

13. *Camera outfit.* Has 220 Sun Dial camera, leather sheath case, telephoto attachment, light bar with 2 375-watt flood lamps and carrying case, \$89.95.
14. *Movie outfit.* Has 220 Sun Dial camera, leather case, light bar plus high-quality Monterey projector, \$127.00.

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15. *Famous for features.* Has variable speed control, 750-watt lamp, reverse and still-picture projection, snap-on carrying case. 273 Statesman, \$219.95.

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West Coast Plant in Los Angeles, Calif.

BUYING GUIDE

(Continued from page 136)

Lens: Factory coated 80mm, f/2.8 Zeiss Tessar.

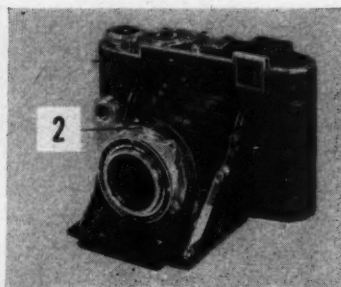
Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Same as 1937 model.

Last List Price: \$145

Last Reported Used Selling Price Range in 1957: \$76-\$89



Special Identification Points: 1. Factory installed sync; 2. Shutter speeds to 1/500 sec.

SUPER IKONTA III

Film Size: 12 pictures 2¼ x 2¼ on 120 film.

Introduced: 1954 (Currently in production)

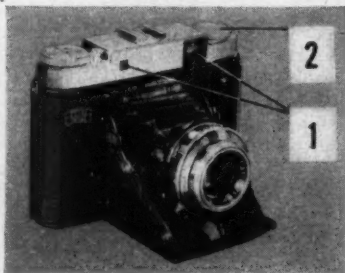
Lens: Factory coated 75mm, f/3.5 Novar or Zeiss Tessar. Current version, Novar only.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Coupled rangefinder with combined view- and rangefinder eyepiece; built-in depth of field scale; body shutter release; blank and double exposure prevention; "red-dot" zone focusing; automatic exposure counter and film transport; film-type indicator.

Last List Price: With Novar lens, \$89; with Tessar (current model comes only with Novar), \$120



Last Reported Used Selling Price Range in 1957: With f/3.5 Tessar, \$52-\$74

Special Identification Points: 1. Rangefinder assembly is completely enclosed; 2. Film-type indicator; 3.

Model with Tessar lens discontinued in 1956.

SUPER IKONTA IV

Note: This model is basically the same as Super Ikonta III, but has the following differences: built-in exposure meter; shutter incorporates Light Value Scale cross-coupled to lens diaphragm. It comes only with 75mm, f/3.5 Zeiss Tessar lens.

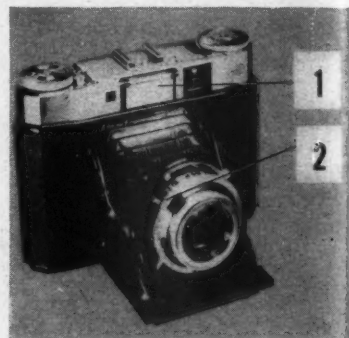
Introduced: 1956 (Currently in production)

Last List Price: \$135

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. Built-



in exposure meter; 2. Shutter has Light Value Scale.

SUPER IKONTA BX (1937 model)

Introduced: 1937 **Discontinued:** 1952
Film Size: 12 pictures 2¼ x 2¼ on 120 film.

Lens: 80mm, f/2.8 Zeiss Tessar.



Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Built-in photoelectric exposure meter, calibrated in American Scheiner degrees (after 1948 came with ASA indexes); automatic film stop; signal device indicates when all 12 exposures have been completed. Other features same as Super Ikonta B, 1937 model.

Last List Price: \$219

(Continued on page 142)

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AT ALL DEALERS

BUYING GUIDE

(Continued from page 140)

Last Reported Used Selling Price Range in 1957: \$66-\$90

Special Identification Points: 1. Before 1948 came with exposure meter in American Scheiner degrees; after 1948 meter had ASA indexes. 2. Exposure meter housing is higher than on later version.

SUPER IKONTA BX (Latest model)

Introduced: 1952 Discontinued: 1957
Film Size: 12 pictures 2 1/4 x 2 1/4 on 120 film.

Lens: Factory coated 80mm, f/2.8 Tessar.

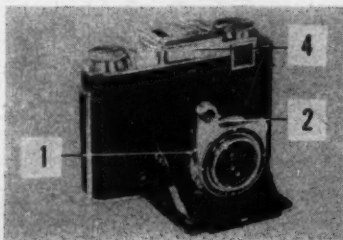
Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Built-in photoelectric exposure meter calibrated in ASA indexes. Other features same as Super Ikonta BX, 1937 model. Note: Exposure meter on this version requires less manipulation than meter in older version.

Last List Price: \$163

Last Reported Used Selling Price Range in 1957: \$80-\$114



Special Identification Points: 1. Factory installed sync; 2. Shutter speeds to 1/500 sec.; 3. ASA indexes; 4. Exposure meter housing is considerably shorter in height than on older version.

SUPER IKONTA C (1934 model)

Film Size: 8 pictures 2 1/4 x 3 1/4 or (with mask) 16 pictures 1 3/4 x 2 1/4 on 120 film.

Introduced: 1934 Discontinued: 1936
Lens: 105mm, f/4.5 or f/3.8 Zeiss Tessar.

Shutter: Compur (with f/4.5 Tessar), 1 to 1/250 sec., plus B & T; or Compur-Rapid (with f/3.8 Tessar), 1 to 1/400 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Coupled rangefinder; self-erecting front; direct-vision optical finder.

Last List Price: With f/4.5 Tessar, \$86; with f/3.8 Tessar, \$122

(Continued on page 144)



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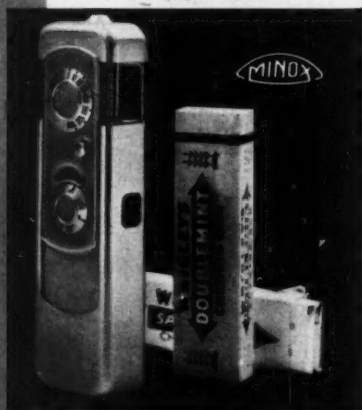
ASAHI OPTICAL CO., LTD., 521 FIFTH AVENUE, NEW YORK 17, N. Y.

Why you should own a minox camera . . .

For many years, you've read or heard about the fabulous ultra-miniature 2½ oz. Minox. You've wondered whether it would take fine pictures and why it costs \$139.50.

Maybe we can answer these questions: The Minox camera contains more than 200 parts, precision engineered with optical tolerances finer than 1/50,000 of an inch. Its 8 x 11mm negative size is small only in comparison with a 35mm negative . . . it is actually 16% larger than a 16mm, and more than 5 times as large as an 8mm movie frame! Standard Minox prints are usually about 3 x 4 inches . . . the equivalent of enlarging your 35mm negatives to a whopping 11 x 14 inches. You will agree that the sharp 4-element f/3.5 Minox lens must be remarkable.

Minox is the ONLY camera you will ALWAYS take with you. Weighing only 2½ ounces, it is slightly larger than a pack of gum. You'll load it in 10 seconds with cassettes that hold up to 50 exposures for rapid fire candids, fast-action (up to 1/1000 sec.!) shots, and sequence photography.



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Perhaps it's fun to tote a gadget-bag, change lenses and filters, set up tripods, etc., but what photographer wouldn't have given his eyeteeth to have a Minox ready in his pocket the day he MISSED that once-in-a-lifetime shot?

Ask your dealer to demonstrate the Minox to you.

minox III-S with case and chrome chain \$139.50

Write for literature F



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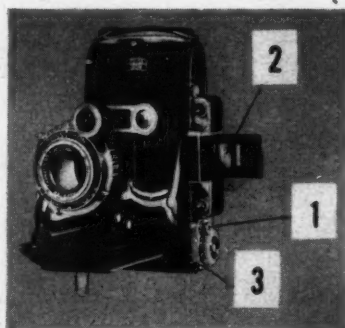
BUYING GUIDE

(Continued from page 142)

Last Reported Used Selling Price Range in 1957: With f/3.8 Tessar, \$44-\$59

Special Identification Points: 1. No body shutter release as in 1936 model; 2. Finished in black enamel with nickel-plated fittings; 3. No factory installed flash sync.

SUPER IKONTA C (1936 model)



Film Size: 8 pictures 2¼ x 3¼ or (with mask) 16 pictures 1¾ x 2¼ on 120 film.

Introduced: 1936 **Discontinued:** 1950
Lens: Until 1938, came with 105mm, f/3.8 Tessar; after 1938, supplied with either f/4.5 or f/3.5 Tessar.

Shutter: Compur (with f/4.5 Tessar), 1 to 1/250 sec., plus B and self-timer; Compur-Rapid (Tessar f/3.8 or f/3.5), 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Double exposure prevention; body shutter release; Albada sports finder. Other features same as earliest version.

Last List Price: With f/3.8 Tessar, \$122

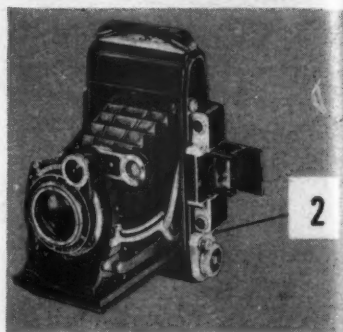
Last Reported Used Selling Price Range in 1957: \$47-\$65

Special Identification Points: 1. Body shutter release; 2. Albada finder; 3. Made only with chrome finish; 4. No built-in flash sync.



WHITE

SUPER IKONTA C (1950 model)



Film Size: 8 pictures 2¼ x 3¼ or (with built-in mask) 16 pictures 1¾ x 2¼ on 120 film.

Introduced: 1950 **Discontinued:** 1955
Lens: Factory coated 105mm, f/3.5 Zeiss Tessar.

Shutter: Flash-synchronized Compur-Rapid, 1 to 1/400 sec., plus B and self-timer (latest version has Synchro-Compur with same range).

Flash Sync: Factory installed. Version with Compur-Rapid, X only; with Synchro-Compur, M and X.

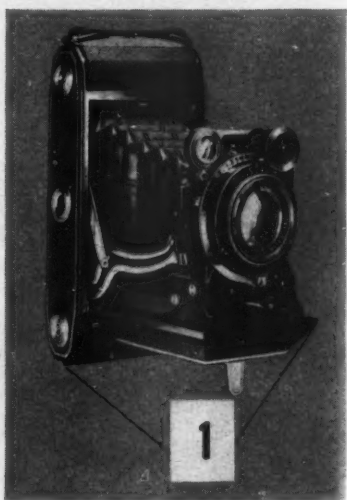
Special Features: Blank exposure prevention. Other features same as 1936 version.

Last List Price: \$114

Last Reported Used Selling Price Range in 1957: \$57-\$80

Special Identification Points: 1. Built-in flash sync; 2. Visual signal for blank exposure prevention.

SUPER IKONTA D



Film Size: 8 pictures 2½ x 4¼ or (with mask) 16 pictures 2½ x 2½ on 616 film.

Introduced: 1936 **Discontinued:** 1939
Lens: 120mm, f/4.5 Zeiss Tessar.

Shutter: Compur, 1 to 1/250 sec., plus

(Continued on page 146)

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BUYING GUIDE

(Continued from page 144)

B & T and self-timer; or Compur-Rapid, 1 to 1/400 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Coupled range-finder; self-erecting front.

Last List Price: \$94

Last Reported Used Selling Price Range in 1957: \$32-\$47

Special Identification Points: 1. Considerably larger dimensions than other Super Ikontas.

MISC. STILL CAMERAS

LARGE REFLEXES, PRESS CAMERAS, and others which do not fit into previous categories are included here. For many years considered the tool of professionals, the large camera is now infiltrating advanced amateur ranks, too. The large negative or transparency it yields assures its continued popularity.

GRAFLEX

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y. (Known before 1943 as Folmer Graflex Corp.)

Type: All of the following Graflex cameras are of the single-lens reflex type.

Film: All models except 1A, 3A, and National Graflex use sheet film, plates, or film pack, and also accept Graflex roll film attachments and sheet film or plate magazines.

Lens: Lenses were usually supplied in barrel mounts. However, those cameras having interchangeable lens-boards occasionally were fitted with lenses in between-the-lens shutters. Standard lenses include Kodak Anastigmat, B. & L. Tessar, or Zeiss Tessar. The later Graflex models also come with Kodak Ektar or Graflex Optar lenses.

Shutter: All models have Graflex focal-plane shutters. Range of shutter speeds varies with the different models.

Flash Sync: With the exception of the R.B. Super D, none of the single-lens reflex Graflexes is equipped with factory installed sync. Types 1 and/or 2 sync may be added to some models, but it may be expensive. Type 4 sync devices have been available in the past (see page 65 for details).

SERIES B GRAFLEX

Film Size: Came in 2 1/4 x 3 1/4, 3 1/4 x 4 1/4, 4 x 5, and 5 x 7 models.

Introduced: 1925 **Discontinued:** 2 1/4 x 3 1/4 model, 1926; 3 1/4 x 4 1/4, 1937; 4 x 5, 1937; 5 x 7, 1942.

Lens: Interchangeable. Standard lens is f/4.5 Kodak Anastigmat.

Shutter Speeds: 1/10 to 1/1000 sec., plus T.

Flash Sync: See note, beginning of Graflex section.

Special Features: Screw-in lens mount.

Last List Price: With f/4.5 Kodak An-



astigmat lens: 2 1/4 x 3 1/4 model, \$58.50; 3 1/4 x 4 1/4, \$85.50; 4 x 5, \$101.50; 5 x 7, \$201.10

Last Reported Used Selling Price Range in 1957: 2 1/4 x 3 1/4, with f/4.5 K. A., \$30-\$45

Special Identification Points: 1. Small door in front, past which lens protrudes when focused; 2. Screw-in lens mount; 3. Back does not revolve.

R. B. AUTO GRAFLEX



Film Size: Came in 3 1/4 x 4 1/4 and 4 x 5 models.

(Continued on page 148)

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a complete movie camera and projector combined in one



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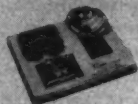


Cine-Twin converts from camera to projector in seconds, is so simple even a child can do it.

Why two costly movements, two gates, two drives for separate camera and projector? This question sparked the idea that gave birth to the sensational Wittnauer Cine-Twin—a camera and projector conceived and built as one. The saving in cost makes possible precision units of highest quality and advanced design at an unheard-of price. The Wittnauer Cine-Twin Camera is *electrically* driven—no winding ever, features a true turret head, optical zoomfinder, spocketless loading, gauge-type automatic footage indicator, color-coded ex-

posure system. Convert to projector in 30 seconds, and show brilliant, self-framing, rock-steady pictures with 300 foot reels. Projector has precision optical system, power cooling, power re-wind, single switch operation—lubricated for life. Ingenuity and perfection of design are matched by watchmaker-precision manufacture. Write for booklet and name of nearest authorized agency. Wittnauer Cine-Twin Camera-Projector complete with f/2.5 standard angle taking lens, f/1.6 projection lens, and necessary take-up reels. \$159.50.

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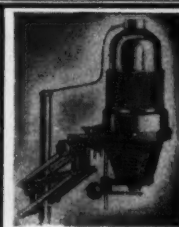
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BUYING GUIDE

(Continued from page 146)

Introduced: 1909 Discontinued: 3 1/4 x 4 1/4, 1942; 4 x 5, 1940

Lens: Interchangeable. Standard lens: f/4.5 Kodak Anastigmat.

Shutter Speeds: 1/10 to 1/1000, T. Flash Sync: See note, beginning of Graflex section.

Special Features: Double extension bellows; revolving back; interchangeable lensboards.

Last List Price: With lens: 3 1/4 x 4 1/4, \$165; 4 x 5, \$242.50

Last Reported Used Selling Price Range in 1957: 4 x 5, with f/4.5 Ektar, \$107-\$129

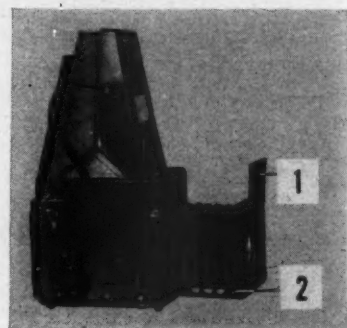
Special Identification Points: 1. Front of camera with auxiliary track drops to horizontal position allowing use of double extension bellows.

R. B. TELE GRAFLEX

Film Size: Came in 3 1/4 x 4 1/4 and 4 x 5 models.

Introduced: 3 1/4 x 4 1/4, 1915; 4 x 5, 1912 Discontinued: 1923

Lens: Interchangeable. Standard lens: f/4.5 Kodak Anastigmat or B. & L. Tessar.



Shutter Speeds: 1/10 to 1/1000 sec., plus T.

Flash Sync: See note, beginning of Graflex section.

Special Features: Revolving back; interchangeable lensboards.

Last List Price: With lens: 3 1/4 x 4 1/4, \$100; 4 x 5, \$116

Last Reported Used Selling Price Range in 1957: 3 1/4 x 4 1/4, with f/4.5 K. A., \$30-\$54

Special Identification Points: 1. Small door over lens opens automatically; 2. Entire front box assembly moves forward as lens is focused. Note: The R. B. Tele Graflex closely resembles the later Series D Models.

R. B. SERIES B GRAFLEX

Film Size: Came in 2 1/4 x 3 1/4, 3 1/4 x 4 1/4, and 4 x 5 models.

Introduced: 1925 Discontinued: 2 1/4 x 3 1/4, 1951; 3 1/4 x 4 1/4 and 4 x 5, 1942

(Continued on page 150)

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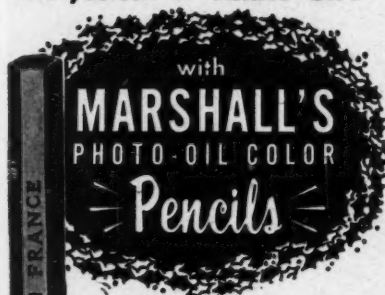


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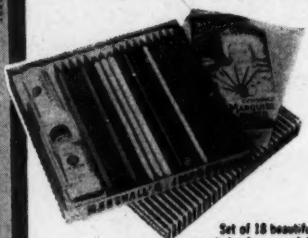
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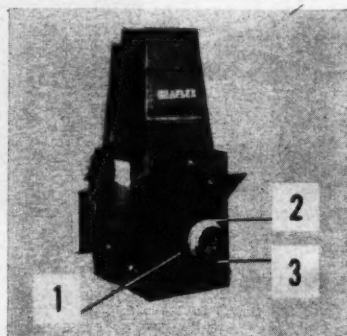
ADDRESS _____

BUYING GUIDE

(Continued from page 148)

Lens: f/4.5 Kodak Anastigmat. Note:
Last version of 2 1/4 x 3 1/4 model
came with f/4.5 Ektar.

Shutter Speeds: 1/10 to 1/1000. T.
Flash Sync: See note, beginning of
Graflex section.



Special Features: Revolving back.

Last List Price: With lens: 2 1/4 x 3 1/4,
\$129.50; 3 1/4 x 4 1/4, \$128; 4 x 5
\$146.65

Last Reported Used Selling Price
Range in 1957: 3 1/4 x 4 1/4, with f/4.5
K. A., \$33-\$65

Special Identification Points: 1. When
focused, lens protrudes past door
opening; 2. Lens screws into mount;
3. No removable lensboard.

R. B. SERIES C GRAFLEX

Film Size: Came in 3 1/4 x 4 1/4 model
only.

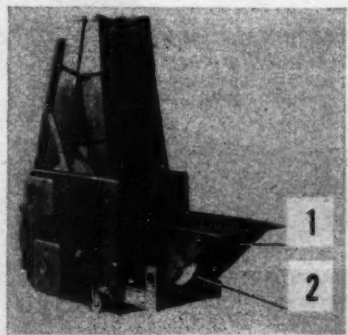
Introduced: 1926 Discontinued: 1935
Lens: Non-interchangeable 6 1/2-in.,
f/2.5 Cooke.

Shutter Speeds: 1/10 to 1/1000. T.
Flash Sync: See note, beginning of
Graflex section.

Special Features: Large aperture lens;
built-in lens shade; revolving back.

Last List Price: With lens, \$208

Last Reported Used Selling Price
Range in 1957: With f/3.5 Tessar,
\$70-\$97



Special Identification Points: 1. Large
front door with side wings opens au-
tomatically as lens is focused; 2.
Non-interchangeable lens.

R. B. SERIES D GRAFLEX

Film Size: Came in 3 1/4 x 4 1/4 and 4 x 5
models.

Introduced: 1928 Discontinued: 3 1/4
x 4 1/4, 1941; 4 x 5, 1945

Lens: Interchangeable. Standard lens:
f/4.5 Kodak Anastigmat or lens of
similar speed.

Shutter Speeds: 1/10 to 1/1000, plus T.
Flash Sync: See note, beginning of
Graflex section.

Special Features: Interchangeable
lensboards; revolving back; built-in
lens shade.

Last List Price: With lens: 3 1/4 x 4 1/4,
\$138; 4 x 5, \$176

Last Reported Used Selling Price
Range in 1957: 3 1/4 x 4 1/4, with f/4.5
Tessar, \$51-\$69

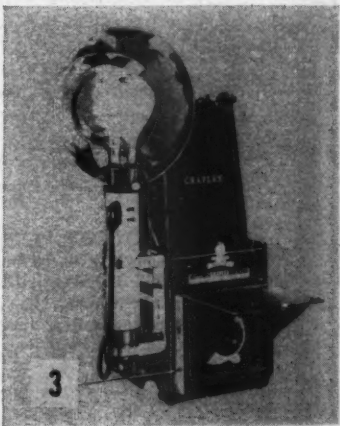
Special Identification Points: 1. Large
front door with side wings opens
automatically as lens is focused; 2.
Interchangeable lensboards.

R. B. SUPER D GRAFLEX

Film Size: Comes in 3 1/4 x 4 1/4 and
4 x 5 models.

Introduced: 3 1/4 x 4 1/4, 1941; 4 x 5,
1948 (both models are currently in
production).

Lens: Interchangeable. Standard lens:
3 1/4 x 4 1/4, 152mm, f/4.5 Ektar in
automatic diaphragm; 4 x 5, 190mm,
f/5.6 Ektar or Optar in automatic
diaphragm.



Shutter Speeds: 1/30 to 1/1000 sec.,
plus T and approximately 1/5 sec.
Flash Sync: Factory installed. Earlier
3 1/4 x 4 1/4 model had open flash
sync only. Later versions have "drop
curtain" X sync; also for FP bulbs
at high shutter speeds.

Special Features: Fully automatic dia-
phragm; first surface mirror; Ektar-
lite Field lens (added in August,
1949); revolving back; interchange-
able lenses.

Last List Price: With lens: 3 1/4 x 4 1/4,
\$335; 4 x 5, \$335

(Continued on page 152)

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(Continued from page 150)

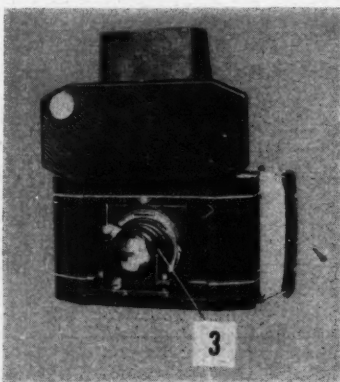
Last Reported Used Selling Price Range in 1957: 4 x 5, with f/5.6 Ektar, \$150-\$184

Special Identification Points: 1. Early $3\frac{1}{4}$ x $4\frac{1}{4}$ model had flash contact in center of left side of camera; 2. Later models have 2-post ASA connector on right side near shutter wind key; 3. Supplied in chrome trim; 4. Release for automatic diaphragm.

NATIONAL GRAFLEX

Note: Available in two models, Series I and II.

Film Size: Ten $2\frac{1}{8}$ x $2\frac{1}{2}$ pictures on 120 roll.



Introduced: Series I, 1933; Series II, 1934. **Discontinued:** Series I, 1935; Series II, 1941.

Lens: Series I: Non-interchangeable, 75mm, f/3.5 B. & L. Tessar; Series II: 75mm, f/3.5 Tessar. Also accepted telephoto 140mm, f/6.3 B. & L.

Shutter Speeds: 1/30 to 1/500; B.

Flash Sync: See note, beginning of Graflex section.

Special Features: Compact size; built-in magnifier; built-in exposure guide in cover; automatic film spacing.

Last List Price: With 75mm, f/3.5 lens: Series I, \$72.50; Series II, \$97.75

Last Reported Used Selling Price Range in 1957: Series I: \$21-\$40; Series II: \$30-\$44

Special Identification Points: 1. Series I had mirror set lever at right of



focusing hood; 2. Series II had mirror set lever at left of focusing hood; 3. Series II accepts telephoto lens; 4. Series II had built-in slide for ruby film window.

GRAPHIC

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y.

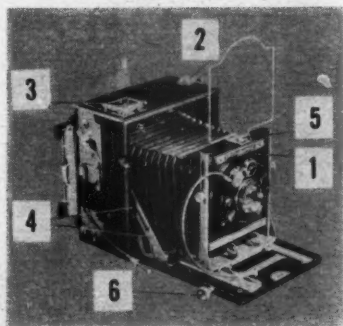
Film: All models use sheet film, plates, or film pack. Models with Graflex or Grafluk backs can also be used with roll film, by means of an accessory roll holder.

Lens: All models have interchangeable lensboards. Standard lenses include Kodak Anastigmat and Ektar, Graflex Optar, Bausch & Lomb Tessar, or Zeiss Tessar. Lenses come in various focal lengths, in barrel mounts, or with between-the-lens shutters.

Shutter: All models come with Graflex focal-plane shutter. All models except Pacemaker Speed Graphics have speeds from 1/10 to 1/1000 sec., plus T. Pacemaker shutter speeds are from 1/30 to 1/1000; T.

Flash Sync: Only Pacemaker Speed Graphics have factory installed sync for the focal-plane shutter. Unless there is compelling reason to do so, it is inadvisable and unnecessary to add sync to the focal-plane shutter. Front shutters of Speed and Crown Graphics may be non-sync or have Types 1, 2, 3, 5 or combination of any of these (see page 65 for details).

4 x 5 SPEED GRAPHIC (1928)



Introduced: 1928 **Discontinued:** 1939

Standard Lens: $5\frac{1}{4}$, 6, or $6\frac{1}{2}$ in.

Flash Sync: See note, beginning of Speed Graphic section.

Special Features: Double extension bellows; interchangeable film holders; two viewfinders; 4 x 4-in. lensboards; came with Graphic or Grafluk back; provision for use of rangefinder or flash outfit.

Last List Price: With Kodak Anastigmat in Compur shutter, \$125

Last Reported Used Selling Price
(Continued on page 154)



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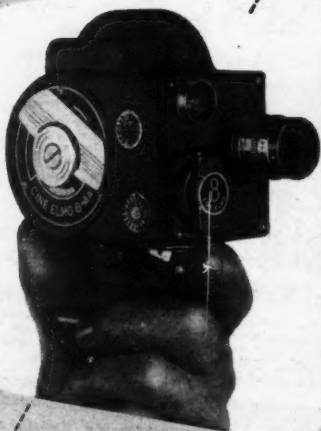
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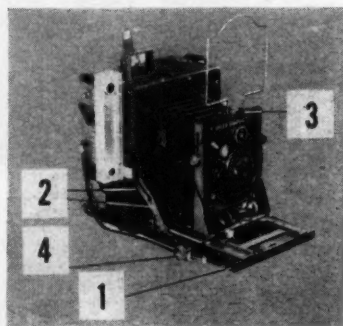
(Continued from page 152)

Range in 1957: With f/4.7 Ektar, \$78-\$105

Special Identification Points: 1. First 4 x 5 Speed Graphic model with 4 x 4-in. lensboard; 2. First 4 x 5 Speed Graphic model with handle on side; 3. Version supplied before 1939 had folding Graphic finder; version supplied in 1939 came with tubular type finder; 4. Came only in all black finish with metal parts finished in gray; 5. Folding front finder; 6. Came only with single focusing knob.

3¼ x 4¼ SPEED GRAPHIC (1935)

Introduced: 1935 Discontinued: 1939
Standard Lens: 5¼ or 5½ in.
Flash Sync: See note, beginning of Speed Graphic section.



Special Features: Same as 1928 version of 4 x 5 Speed Graphic, but had 3¼ x 3¼-in. lensboard, instead of 4 x 4-in.

Last List Price: With Kodak Anastigmat lens in Compur shutter, \$125
Last Reported Used Selling Price Range in 1957: With rangefinder and f/4.5 Tessar, \$65-\$89

Special Identification Points: 1. Was supplied only with wood front bed; 2. Came only in all black finish with metal parts finished in gray; 3. Folding front frame finder; 4. Came only with single focusing knob.

ANNIVERSARY SPEED GRAPHIC

Film Size: Available in 3¼ x 4¼ and 4 x 5

Introduced: 1940 Discontinued: 1947
Standard Lens: 3¼ x 4¼ model: 5, 5¼, or 5½-in.; 4 x 5 model: 5, 5¼, 6, or 6½-in.

Flash Sync: See note, beginning of Speed Graphic section.

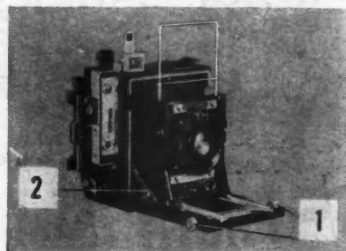
Special Features: Double extension bellows; interchangeable film holders; came with Graphic or Graflex back (Graflex back is now available as accessory); drop bed; linked fo-

cusing track; dual focusing knobs; provision for attaching rangefinder or flash.

Last List Price: Either model, \$176 to \$191, depending on lens.

Last Reported Used Selling Price Range in 1957: 4 x 5, with f/4.5 Xenar, \$85-\$115

Special Identification Points: 1. Differentiated from previous models by having dual focusing knobs; 2. Had bright finish metal parts (version



supplied during World War II had dull finish).

PACEMAKER SPEED GRAPHIC

Film Size: Available in following models: "23" for 2¼ x 3¼, "34" for 3¼ x 4¼, and "45" for 4 x 5

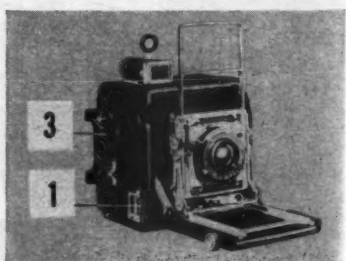
Introduced: 1947 (Currently in production)

Standard Lens: "23," 101mm; "34," 127 or 152mm; "45," 135 or 162mm.

Shutter: Graflex focal-plane, 1/30 to 1/1000 sec., plus T. Note: Current Pacemaker focal-plane shutters have factory installed sync.

Flash Sync: Factory installed in focal-plane shutter. For FP bulbs at high shutter speeds. Front shutter—see note, beginning of Speed Graphic section.

Special Features: Rising, tilting, shifting front; body release for front and back shutters; parallax correction for both optical and frame finders; folding infinity stops; adjustable handle strap. Other features same as Anniversary model. Note: Current "34" and "45" Pacemaker models have Ektalite field lens. All current Pacemaker models come



with Graphic, Graflex, or Graflex back.

Note: Latest 4 x 5 version, introduced in January, 1955, has flexible frame (Continued on page 156)

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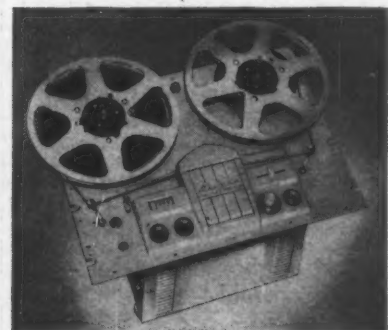
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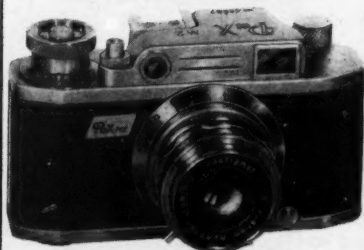
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T-11 Custom Model—For easy installation into any high fidelity system. Solenoid operated keyboard, push-button control. Accepts 3, 5, 7 and 10½-inch reels. Records up to 2 hours with 7½ i.p.s. tape speed or 3 hours with long-play tape. With reel adapters, cord assemblies and plugs.....**\$284.50**



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KINE CAMERA CO. INC.

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BUYING GUIDE

(Continued from page 154)

front finder and parallax adjustment on rear peepsight. It is also available with Graphic Multi-Cam rangefinder including built-in beam focusing device and new optical viewfinder with automatic parallax correction.

Last List Price: With lens, less rangefinder: "23," from \$293.25; "34," from \$292.50; "45," from \$292.50.

Last Reported Used Selling Price Range in 1957: "23," with rangefinder and f/4.5 Ektar, \$127-\$169; "34," with rangefinder and f/4.7 Optar, \$120-\$153; "45," with rangefinder and f/4.7 Optar, \$145-\$190

Special Identification Points: 1. Only Speed Graphic model with body release for both focal-plane and front shutters; 2. After May, 1951, "34" and "45" models were supplied with Ektalite field lens; 3. Version supplied before July, 1950, came only with Graphic or Graflex back; version supplied after July, 1950, has Graphic, Graflex, or Grafluk back.

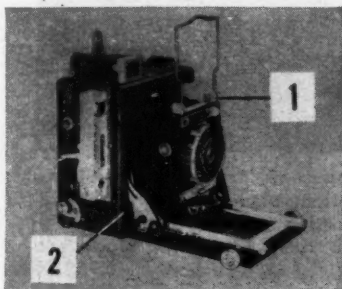
MINIATURE SPEED GRAPHIC

Film Size: 2 1/4 x 3 1/4 only

Introduced: 1938 Discontinued: 1947
Standard Lens: 4-in.

Flash Sync: See note, beginning of Speed Graphic section.

Special Features: Double extension bellows; interchangeable holders; came with Graphic or Graflex back; dual focusing knobs; factory installed sync in focal-plane shutter.



Last List Price: From \$120, depending on lens.

Last Reported Used Selling Price Range in 1957: With f/4.5 Ektar, \$65-\$105

Special Identification Points: 1. Folding, instead of retracting, frame finder as in Pacemaker "23"; 2. No body shutter release.

The following Graphic Cameras do not have focal-plane shutters.

PACEMAKER CROWN GRAPHIC

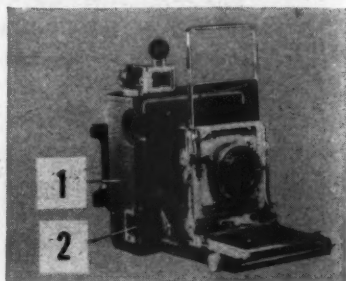
Note: This camera is similar throughout to the Pacemaker Speed Gra-

phic, except that it does not have a focal-plane shutter.

Film Size: Available in 2 1/4 x 3 1/4, 3 1/4 x 4 1/4, and 4 x 5 models.

Note: Version introduced in January, 1955, has new optical viewfinder with automatic parallax correction. It is also available (in "45" model only), at extra cost, with built-in rangefinder which couples (by means of individual cams) with a wide range of lenses.

Introduced: 1947 (Currently in production)



Flash Sync: Depends on front shutter installed. See note, beginning of Speed Graphic section.

Last List Price: With lens, less built-in rangefinder: "23," from \$256.15; "34," from \$260; "45," from \$260. With lens and built-in rangefinder: "45," from \$299.95

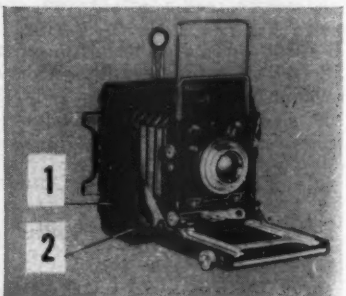
Last Reported Used Selling Price Range in 1957: With f/4.5 Ektar: "23," \$105-\$143; "34," \$108-\$147; "45," \$118-\$161

Special Identification Points: 1. No focal-plane shutter; 2. Body shutter release.

CENTURY GRAPHIC (2 1/4 x 3 1/4)

Introduced: August, 1949 (Currently in production)

Standard Lens: 101mm, f/4.5 or 105mm, f/3.7 Ektar; or 103mm, f/4.5 Graflex Trioptar or Grafar. Some were also supplied with 101mm f/4.5 Optar.



Flash Sync: Depends upon shutter fitted to camera. Early Century shutters had sync for class F (SM, SF) bulbs 1/50-1/200; M up to 1/25; later versions, X sync.

(Continued on page 158)

GUARANTEED GUIDE NUMBERS

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for hi-speed films!**

SPECIAL NEW FEATURES

- Half Power switch to reduce light output to one-half its volume where required. This switch makes recharging faster using Bright Star 10P Batteries.
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- Flash duration..... 1/1000th sec. 1/1800th sec.
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HERSHEY "700"

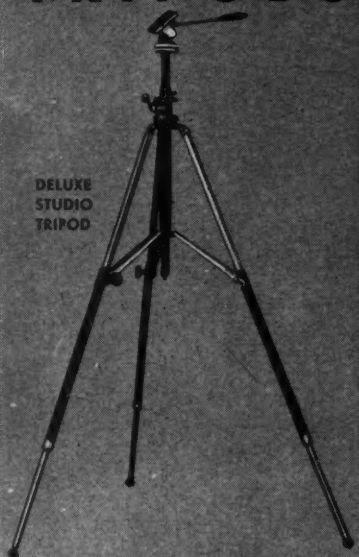
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Linhof TRIPODS

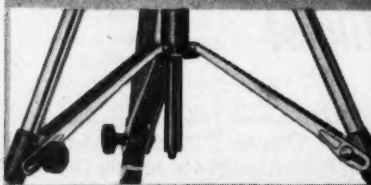
DELUXE
STUDIO
TRIPOD



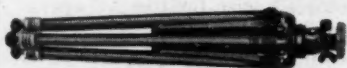
Linhof famous for its Super Technika cameras also produces a complete line of precision tripods. Linhof tripods are intended for the discriminating photographer who owns fine cameras. These tripods emphasize quality rather than price, yet they cost only a little more than ordinary tripods if amortized over the long life of this quality product.

Deluxe Studio Tripod with geared center post and struts. Extends to 82". Collapses to 28". Weights 9 1/2 lbs. Takes all cameras up to 4x5. Cannot tip over, even on slippery floors. **\$79.95**

Precision Panhead \$18.95



The remarkable stability of this tripod is based on its ingenious design. Three braces connect the tripod legs to the geared center post and thus prevent the tripod legs from spreading. The built-in geared center post facilitates easy and speedy elevation of the camera.



The Deluxe Studio Tripod demonstrates its compactness by folding to 28 inches — ideal for travel or storage.

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SOLE U.S. DISTRIBUTOR

KLING PHOTO CORP.

257 Fourth Avenue, New York 10, N.Y.
3783 Melrose Avenue, Los Angeles 46, Calif.

BUYING GUIDE

(Continued from page 156)

Special Features: Double extension bellows, drop bed, interchangeable lensboard; rising, tilting, shifting front; Grafluk back with removable focusing panel; dual focusing knobs; folding infinity stops; adjustable handle; provision for attaching rangefinder, flash, or optical finder.

Last List Price: With Graftar lens, \$137.95

Last Reported Used Selling Price Range in 1957: With f/4.5 Ektar, \$64-\$80

Special Identification Points: 1. No focal-plane shutter; 2. No body shutter release.

LINHOF

Manufacturer: Linhof K.G., Precision Camera Works, Munich, Germany.

Importer: Kling Photo Corp., 235 Fourth Ave., New York 3, N. Y.

Film: All models listed use sheet film, plates, or film pack. Later models also accept accessory roll film adapters. Late Model 4 x 5 Super Technika accept accessory Polaroid back.

Lens: All models listed have interchangeable lensboards. Lenses originally supplied for the Linhof include Meyer Gorlitz, Schneider, Rodenstock, Voigtlander, Carl Zeiss, Jena. Accessory lenses range from 53mm to 360mm (from 47mm for current model) for the 2 1/4 x 3 1/4 Linhofs, and from 65mm to 360mm for the 4 x 5 models.

Shutter: Depends on lens installed in camera. Current 4 x 5 Super Technika accepts accessory focal-plane shutter.

Flash Sync: Depends on lens installed in camera. May be non-sync, X, MX, or MFX.

LINHOF TECHNIKA II, 6 x 9cm (1936 model)

Introduced: 1936 **Discontinued:** 1940

Special Features: Swing back and front; detachable revolving back; triple extension bellows; frame finder.

Last List Price: Less lens, \$175

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: 13,001 to 19,000

Special Identification Points: 1. Black enamel finish; 2. Frame finder.

LINHOF SUPER TECHNIKA 2 1/4 x 3 1/4 (1951 model)

Introduced: 1951 **Discontinued:** 1956

Special Features: Built-in rangefinder coupling to lenses from 53mm to 240mm by means of interchangeable

cams; adjustable vari-focus viewfinder with parallax compensation, combined with rangefinder; detachable revolving, swinging and tilting back; rising and tilting front; drop bed; triple extension bellows; two-position cable release sockets.

Note: This model was also available without rangefinder, which could be added later.



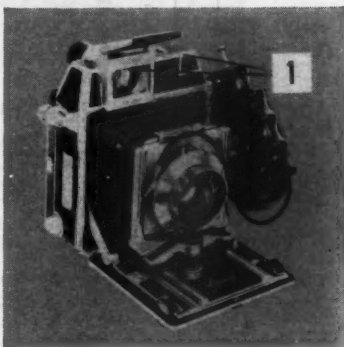
Last List Price: With rangefinder: Less lens, \$329.75; with 105mm, f/3.5 Schneider Xenar, \$399.70

Last Reported Used Selling Price Range in 1957: With 3 rangefinder-coupling Schneider lenses, \$375-\$441

Serial Numbers: 43,001 to 81,000

Special Identification Points: 1. Early version has polished chrome finish; later version (illustrated) has satin chrome finish; 2. Differentiated from current Super Technika 2 1/4 x 3 1/4 model by not having device for quick interchange of camera backs.

LINHOF SUPER TECHNIKA 2 1/4 x 3 1/4 (1957 model)



Note: This model is similar to last version of 1951 model, but has the following improvements: Device for quick interchange of camera backs; two-color rangefinder image. It is also available without rangefinder, which can be added later.

Introduced: 1957 (Currently in production)

(Continued on page 160)

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(From H.J.O., Campbell, Ohio)

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(From M.H.P., Dallas, Texas)

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(From J.W.S., Los Angeles, Calif.)

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BUYING GUIDE

(Continued from page 158)

Last List Price: With rangefinder: Less lens, \$389.50; with 105mm, f/3.5 Schneider Xenar, \$464.45; with 100mm, f/2.8 Zeiss Planar, \$622.50

Last Reported Used Selling Price Range in 1957: Not available.

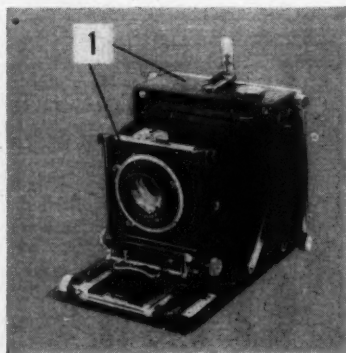
Serial Numbers: From 81,001

Special Identification Points: 1. Rangefinder has two-color image; 2. Device for quick change of camera backs.

LINHOF TECHNIKA II, 9 x 12cm (1936 model)

Introduced: 1936 **Discontinued:** 1940
Special Features: Rising and tilting front with horizontal shift; detachable revolving and swinging back; triple extension bellows; frame finder; built-in spirit levels.

Last List Price: Not available.



Last Reported Used Selling Price Range in 1957: With f/4.5 Tessar, and Compur shutter, \$69-\$99

Serial Numbers: 13,001 to 19,000

Special Identification Points: 1. All-black finish.

LINHOF TECHNIKA III, 4 x 5 (1946 model)

Note: There are several versions of this model. Before 1948, it came without rangefinder; after 1948, it was supplied with built-in coupled rangefinder utilizing interchangeable cams for lenses of various focal lengths. It was not brought in by the present importers of the Linhof, but was marketed through other channels.

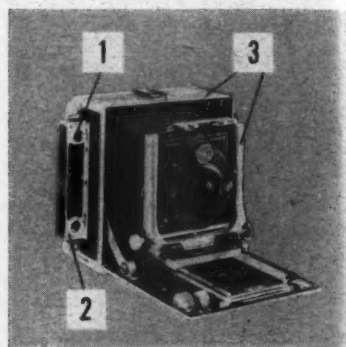
Introduced: 1946 **Discontinued:** 1950

Special Features: Coupled rangefinder (in versions introduced after 1948); spring lock on lensboard; interchangeable focusing scales; cross spirit level built into baseboard; swivel of lens standard increased to 15 degrees to each side; stronger baseboard with tripod bushing; two-position cable release sockets. Other features same as 1936 Technika II, 4 x 5.

Last List Price: Not available

Last Reported Used Selling Price Range in 1957: With f/4.5 Xenar, \$150-\$190

Serial Numbers: 2,001 to 5,000



Special Identification Points: 1. After 1948, came with coupled rangefinder; 2. Rangefinder housing has square ends; 3. Black finish with polished metal trim.

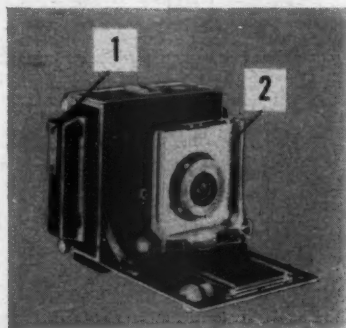
LINHOF SUPER TECHNIKA III, 4 x 5 (1950 model)

Note: This camera is similar to later version of Technika III, 4 x 5, 1946 model, but its rangefinder housing is more streamlined and is fitted with a flashgun bracket. When first introduced, it had polished metal trim; from 1951, it had satin chrome trim. It was also available without rangefinder, which could be added later.

Introduced: 1950 **Discontinued:** 1953
Last List Price: With rangefinder, less lens, \$299.50

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: 30,001 to 42,000

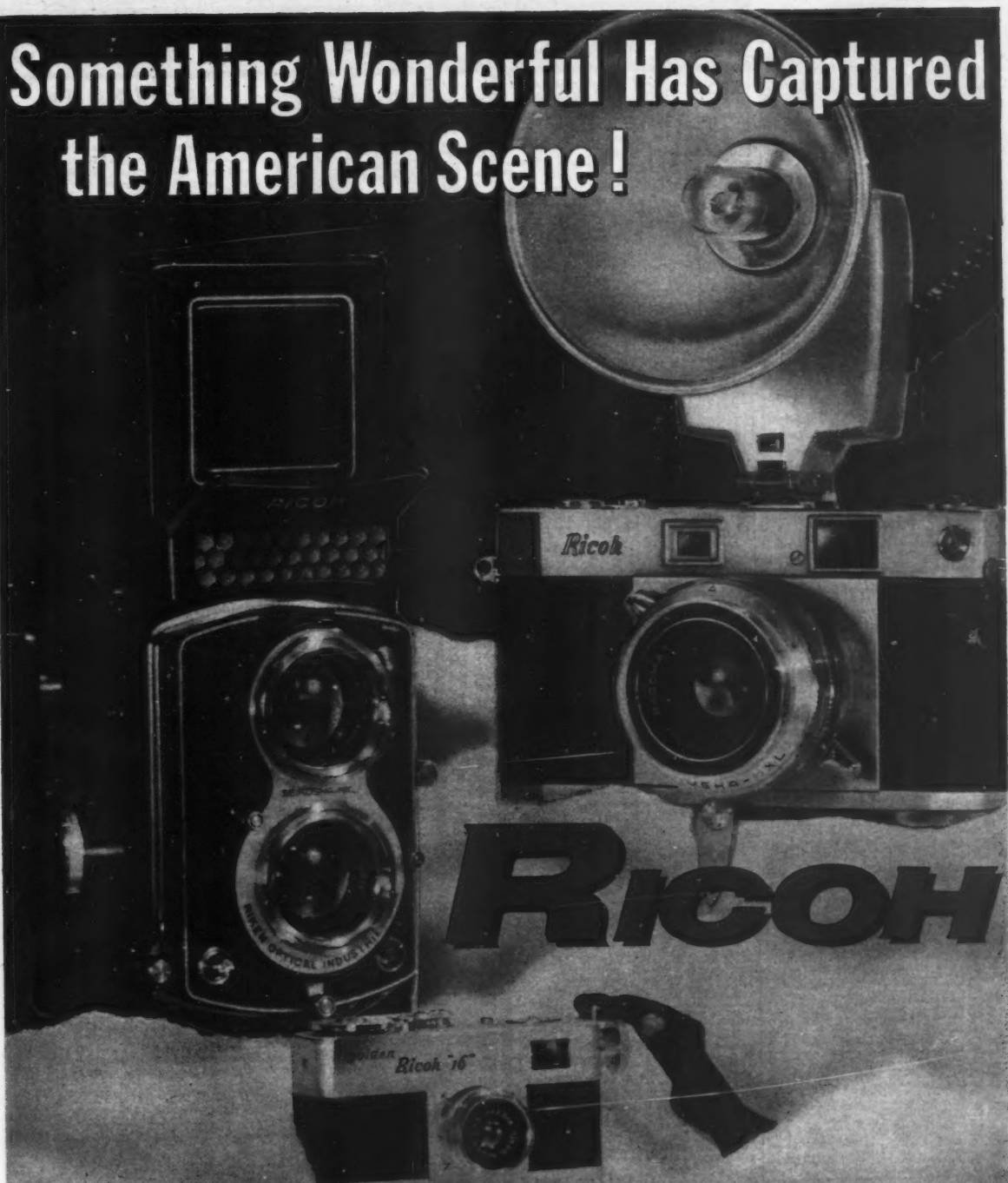


Special Identification Points: 1. More streamlined rangefinder, fitted with flashgun bracket; 2. After 1951, came with satin chrome trim.

LINHOF SUPER TECHNIKA III, 4 x 5 (1953 model)

Note: This camera is similar to later version of Super Technika III.
(Continued on page 164)

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109.95 Sportster, F:2.5.....	89.95
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109.95 8mm Electric Eye, F:1.6.....	128.50
179.95 Tri-Lens, F:1.9.....	135.00
199.95 Auto 8 Explorer, F:1.9.....	149.95

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99.95 Super Monterey w/encl. gear-driven arm.....	74.95
114.95 Monterey Deluxe 253RY w/Filmovara lens.....	89.95
199.95 Regent 122LC 500 Watt.....	120.00
194.95 Regent Deluxe 122LRY w/Filmovara lens.....	148.25

USED 8mm MOVIE CAMERAS

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289.95 Auto Master Turret w/F:1.9, Magazine.....	217.50
179.95 Rol Film 240A w/F:2.5 Sunomatic lens.....	135.00
319.95 Rol Film, 3 lens Turret w/F:2.5.....	165.00
359.95 Rol Film, 3 lens Turret w/F:2.5 Cont.....	195.00
329.95 16mm Electric Eye, F:1.9.....	239.50
30.00 Case for Electric Eye Camera.....	22.50

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79.50 Deluxe Model D.....	99.95
99.50 Deluxe Model DE.....	74.95
89.50 Streamliner 500.....	79.95
109.50 Streamliner 500E.....	82.00
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Take a look at the future through the viewing system of this revolutionary camera. Single lens reflex—of course! Plus split-image rangefinder combined with eye-level prism viewfinder that can be replaced with an accessory waist-level finder. Plus a built-in optical viewfinder for sports or available light.

Praktina FX with 50mm f/2.8 C. Z. Jena Tessar with internal automatic diaphragm control.....	\$239.50
Praktina FX with 58mm f/2.0 C. Z. Jena Biotar with internal automatic diaphragm control.....	297.50
Praktina FX with 55mm f/1.9 Steinheil Quinon with internal automatic diaphragm control.....	299.50
Leather eveready case and carrying strap.....	12.00
Deluxe leather eveready case with metal binding and carrying strap.....	15.00
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Leather case for Waist-level or Penta-prism viewfinder.....	3.00
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75mm f/1.9 Meyer Gorlitz Primoplan, pre-set diaphragm.....	135.00
80mm f/2.8 C.Z. Jena Biotar, pre-set diaphragm.....	120.00
100mm f/2.8 Meyer Gorlitz Trioplan, pre-set diaphragm.....	75.00
135mm f/2.8 Steinheil Quinar, pre-set diaphragm with sunshade and leather case.....	149.50
135mm f/3.5 Meyer Gorlitz Primotar.....	99.50
135mm f/3.5 Schacht Travenar, trigger release pre-set diaphragm.....	93.00
135mm f/4.0 C.Z. Jena Triotar, pre-set diaphragm.....	85.00
135mm f/4.5 Schacht Travegon.....	53.00
150mm f/5.5 Meyer Gorlitz Telemegor, pre-set diaphragm.....	55.95
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400mm f/5.5 Meyer Gorlitz Telemegor, pre-set diaphragm.....	199.50

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- * Lens Interchangeability
- * Two-way Single Lens Viewing



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Praktica FX3 automatic with 50mm f/2.8 Westanar with internal automatic diaphragm control.....	149.50
Praktica FX2 with 58mm f/1.9 Meyer Gorlitz Primoplan, pre-set diaphragm.....	139.50
Praktica FX2 with 50mm f/2.8 C.Z. Jena Tessar, pre-set diaphragm.....	139.50

The accessories listed below are for use with either the Praktica FX2 or Praktica FX3 automatic camera.

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Prismatic Eye-level viewfinder.....	29.95
Case for Prismatic Finder.....	3.00
Flash Unit, B-C type.....	15.50

WIDE-ANGLE LENSES

40mm f/3.5 Steinheil Cassaron.....	54.50
40mm f/4.5 C.Z. Jena Tessar.....	85.00

TELEPHOTO LENSES

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135mm f/2.8 Steinheil Quinar, pre-set diaphragm with sunshade and leather case.....	149.50
135mm f/4.0 C.Z. Jena Triotar, pre-set diaphragm.....	85.00
135mm f/4.5 Steinheil Culminar.....	69.50
150mm f/5.5 Meyer Gorlitz Telemegor, pre-set diaphragm.....	55.95
180mm f/5.5 Meyer Gorlitz Telemegor, pre-set diaphragm.....	82.95
200mm f/4.5 Steinheil Quinar, pre-set diaphragm with sunshade and leather case.....	149.50
260mm f/5.5 Meyer Gorlitz Telemegor, pre-set diaphragm.....	132.15

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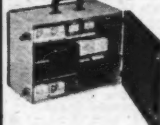
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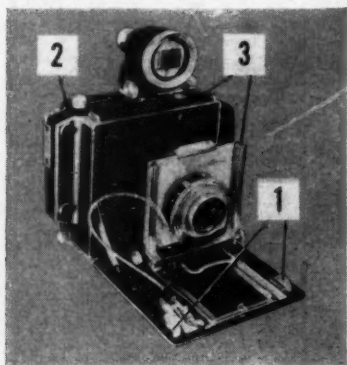
(Continued from page 160)

4 x 5, 1950 model, but has the following improvements: Reinforced camera body; drop bed; universal camera back with Ektalite field lens (also available with Graflex type back); spring back system for holding film holders in place; prism-type rangefinder. In addition, version introduced in 1955 has left and right hand focusing knobs; strengthened, deeper baseboard; and reinforced hinges. It is also available without rangefinder, which can be added later.

Introduced: 1953 (Currently available)

Last List Price: With rangefinder: less lens, \$369.50; with 150mm, f/4.5 Schneider Xenar, \$459.45

Last Reported Used Selling Price Range in 1957: With f/4.5 Xenar, \$205-\$270



Serial Numbers: 58,001 to 81,000

Special Identification Points: 1. From 1955, came with left and right hand focusing knobs; 2. Rangefinder housing flush with upper edge of camera body; 3. Black leather finish with satin chrome trim (was also available in colors on special order).

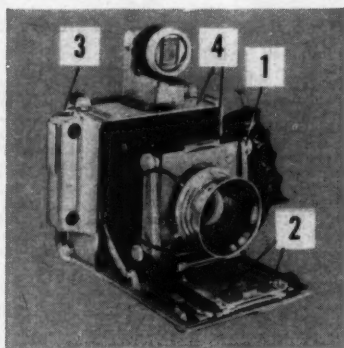
Note: Illustration shows camera with accessory multi-focus viewfinder.

LINHOFF SUPER TECHNIKA IV, 4 x 5 (1957 model)

Note: This camera is basically similar to 1955 version of Super Technika III, 4 x 5, but has the following improvements: Lens standard tilts and swivels through lens nodal point for critical alignment and locks in any intermediate position; increased horizontal shift in lens standard; extra strong lensboard with all metal light trap; adjustable flip-up infinity stops; two-color rangefinder image; outlet in rangefinder for Focuspot beam focusing device; improved universal back; device for quick interchange of camera backs; zero position of all camera movements is indicated by ball

catches. The camera accepts accessory focal-plane shutter with speeds up to 1/1000 sec. It is also available without rangefinder, which can be added later.

Introduced: 1957 (Currently in production)



Last List Price: With rangefinder and anatomical grip, less lens, \$499.50; with following Schneider lenses: 135mm, f/3.5 Xenotar, \$679; 150mm, f/5.6 Symmar, \$629; 150mm, f/4.5 Xenar, \$589.45; 150mm, f/2.8 Xenotar, \$809

Last Reported Used Selling Price Range in 1957: Not available.

Serial Numbers: From 81,001

Special Identification Points: 1. Locking knob for lens tilt; 2. Adjustable flip-up infinity stops; 3. Outlet for Focuspot; 4. Tan leather finish with satin chrome trim (also comes in black or colors on special order).

Note: Illustration shows camera with accessory multi-focus viewfinder.

PLAUBEL MAKINA

Manufacturer: Plaubel, Feinmechanik & Optik, Frankfurt/Main, Germany.

Importer: Formerly imported by Willoughbys-Wholesale, 110 W. 32nd St., New York 1, N. Y.

Flash Sync: Type 1 (X sync) can be added to any non-sync Plaubel Camera listed. See page 65 for details.

MAKINA 6.5 x 9cm CAMERA

Film Size: 6.5 x 9cm (2 1/4 x 3 1/4). All models accept interchangeable backs for plates, sheet film, film pack, roll and 35mm film. Also available is accessory focal-plane shutter back.

MAKINA I (1920 model)

Introduced: 1920 Discontinued: 1932
Lens: Until 1924, came with fixed (unremovable) 100mm, f/4.5 Anticomar; after 1924, came with 100mm, f/2.9 Anticomar whose front elements could be replaced with accessory components for wide-angle and telephoto operation.

(Continued on page 168)

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Leica 111C, f2 lens	79.50
Leica 111F, f2 Summar	129.50
Leica 111G, f2 Summicron	238.50
Leica M-3, f2 Summicron	268.50
Canon IVS-2, f1.8	118.50
Canon V, f1.9	129.50

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Contax II, f2 Sonnar	68.50
Contax III, f1.5 Sonnar	99.50
Contax IIA, f2 Sonnar	118.50
Contax IIA, f1.5 Sonnar	139.50
Nikon 1, f2 lens	69.50
Nikon S-1, f2 lens	89.50
Nikon S-2, f1.4 Nikkor	199.50

MOVIE SALE

B&H 200 EE	\$194.50
B&H Regent Projector	92.50
B&H Monterey Deluxe Proj.	69.50
Cine Kodak Royal, f1.9 lens	97.50
Bauer 88B, f1.9 lens	107.50

EXAKTA SALE

Exakta I, f3.5 lens	\$39.50
Exakta II, f2.8 lens	54.50
Exakta VX, f2.9 lens	99.50
Exakta VX, f1.9 Auto Xenon	179.50
Exakta, VX, f3.5 Tessar	108.50
Exa, f2.9 lens	39.50

35mm CAMERA SALE

Ricoh 300, case & Flash	\$49.50
Minolta A-2	38.50
Grafic "25," case & Flash	48.50
Retina 11A, f2 lens	59.50
Retina 11C, f2.8 lens	69.50
Argus C2, f3.5 lens	24.50
Contaflex I, f2.8 Tessar	79.50
Contaflex II, f2.8 Tessar	98.50
Contaflex III, f2.8 Tessar	109.50
Contaflex IV, f2.8 Tessar	124.50
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35mm f3.5 Nikkor	49.50	90mm f2.5 Angenieux, NEW	49.50
35mm f1.8 Canon	92.50	135mm f4.5 Hektor	68.50
35mm f2.5 Summaron	59.50	135mm f3.5 Nikkor	87.50
75mm f1.5 Zeiss Biotar	79.50	135mm f4 Sonnar	79.50
85mm f2 Nikkor	87.50		

Exakta, Exa, Pentacon, Praktica, Praktina, etc.

26mm f3.5 Angenieux	\$49.50	90mm f1.8 Angenieux	89.50
35mm f2.5 Angenieux	54.50	90mm f2.5 Angenieux	52.50
35mm f2.8 auto Flektagon	99.50	135mm f3.5 Angenieux	49.50
35mm f3.5 auto w.a.	54.50	135mm f4 Triotar p.s.	59.50
35mm f2.5 Terragon, p.s.	39.50	135mm f2.8 Quinar p.s.	89.50
40mm f4.5 Zeiss Tessar	32.50	180mm f3.5 preset lens	37.50
40mm f2.5 Steinheil	29.50	180mm f2.8 Sonnar p.s.	189.50
40mm f4.5 Helioplan	26.50	200mm f4.5 Quinar p.s.	94.50
40mm Macro Kilar "E"	62.50	250mm f3.5 preset lens	54.50
40mm Macro Kilar "D"	78.50	200mm f4.5 Meyer p.s.	124.50
50mm f2.8 auto Westernar	39.50	400mm f4.5 preset lens	89.50
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List Price 249.50



Allowance for your
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Konica III*

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NO TRADE
NEEDED

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Case \$9.50

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Alpa 6.....128.50+your Leica IIF
Alpa 6.....117.50+your Contaflex IIA
Contaflex II.....88.50+your Contaflex I
Contaflex II.....88.50+your Retina IIA
Konica III.....37.50+your Argus C-4
Miranda.....88.50+your Leica IIF
Nikon 5.....88.50+your Retina IIF
Nikon 5.....88.50+your Contaflex
Nikon 5.....88.50+your Leica IIF
Nikon 5.....88.50+your Contaflex IIA
Exakta "66".....88.50+your Rolleiflex 2.8c
Exakta "66".....128.50+your Rolleiflex MX
Leica IIF 9.T.....49.50+your IIF Red dial
Leica IIF.....88.50+your Leica IIF
Leica M3.....149.50+your Leica IIF
Leica M3.....88.50+your Exakta VX
Minotax IIF.....49.50+your Minotax IIF
Alpa 6.....78.50+your Alpa 7

Nikon SP.....118.50+your Nikon 5-2
3&H 8mm ES.....108.50+your 8mm camera
3&H 16mm 200CE.....99.50+your 16mm camera
New 1958 Miranda.....88.50+your Praktica
New 1958 Miranda.....87.50+your Pentax
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Canon VT.....88.50+your Leica IIF
Canon VT.....88.50+your Contaflex IIA
Canon VT.....88.50+your Exakta VX
Canon VT.....88.50+your Nikon 5-2
Canon 78.....88.50+your 8mm camera
Praktica FX.....88.50+your Pentax
Praktica FX.....88.50+your Contaflex
Praktica FX.....88.50+your Leica IIF
Praktica FX.....88.50+your Contaflex IIA
Praktica FX.....88.50+your Retina IIF
New 1958.....88.50+your Retina IIF
Retina Reflex.....114.50+your Retina IIF
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BRAND NEW LATEST
Contaflex III

49.50

Plus your
Contaflex II

\$62.50
plus your
Contaflex I

CONTAFLIX IV,
ADD \$17.50 TO ABOVE PRICES



BRAND NEW LATEST
Contax IIIA & IIA

69.50

old IIAA
for new IIAA

(Body for Body)

• MX Flash Synchronized • Takes
all Bulbs and Strobes • Standard
Flash Post • Needs no Special Cord



GO "AUTOMATIC!"
**fully automatic
lenses**



For Exakta,
Exa, Pentaxcon,
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35mm F3.5 Element Lens \$ 38.50
+ your w.a. lens
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+ your F2.8 Tessar
50mm F1.9 Schneider Xenon 64.50
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+ your F2 Biotar PS
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All lenses traded for
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with
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set or F2.8 Tessar pre-

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**SAVE
UP TO 60%**

BRAND NEW AUTOMATIC
Exakta vx* outfit

REG. 399.50

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HERE'S WHAT YOU GET!

• Brand new Exakta VX*
• F2.8 Automatic Westonar Lens
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• Split-image Rangefinder Insert
• Extra Ground Glass Insert
• 135mm F3.5 Pre-set Telephoto
Lens
• Exakta Extension Tube Set for
Close-ups
• Exakta B.C. Flashgun
• Leather Case

*DISC.

**FREE
EXPOSURE
METER**

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now

94.50



HERE'S WHAT YOU GET!

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• Penta Prism Finder
• Split-image Rangefinder Insert
• Extra Ground Glass Insert
• 100mm F4.5 Exa Telephoto Lens
• Exa Extension Tube Set
• Exa B.C. Flashgun
• Leather Case

50mm F2.8 Zeiss Tessar instead
of Westar, add **\$14.50**
50mm F2.8 Automatic Westonar
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40mm Zeiss Tessar W.A. lens
Reg. \$48.00.....now **\$39.50**
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LATEST
AUTOMATIC
**Praktina FX
outfit***

Reg. 370.50

now

189.50



• Automatic Praktina FX Camera
• 50mm F2.8 Automatic Tessar Lens
• Penta Prism Finder
• Rangefinder Insert
• Extra Ground Glass Insert
• 135mm F3.5 preset Telephoto Lens
• Extension Tube Set for Close-ups
• B.C. Flashgun
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• Free Exposure Meter *Used like new

55mm F2 Auto Biotar instead
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SAVE 40%
**COMPLETE MOVIE
OUTFIT**

All Brand New

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Spec. **\$79.95**

• Bell & Howell 8mm Wilshire 220
camera

• Famous make 8mm projector

• Movie light bar & 4 GE bulbs

• Carrying Case for lights

• Glass Bonded Triped Screen

• Glass Bonded Triped Screen

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SAVE \$150.00 BRAND NEW

Retina IIIC

REG. 409.00

now

259.50

HERE'S WHAT YOU GET!

• Latest Retina IIIC

• 50mm F2.8 normal lens

• 35mm F2.8 Curtar Wide-Angle Lens

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• 35-90 Optical Finder

• 3 Lens Shutter

• B.C. Flashgun

• Deluxe chrome trim Leather Case

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BRAND NEW LATEST
SOLIGOR REFLEX



2 1/4 x 2 1/4 single lens
reflex camera

Reg. 99.50

now

68.50

COMPLETE WITH F2.8 p.s. Lens

• Interchangeable lenses

• Speeds to 1/500 sec.

• MX flash synchronized

• Automatic film transport

• Automatic film transport

• Automatic film transport

• Automatic film transport

• Automatic film transport

• Automatic film transport

• Automatic film transport

• Automatic film transport

• Automatic film transport

BRAND NEW LATEST
AIRIS IIIL



69.50

NO TRADE
NEEDED

• F1.9 Ultra Speed Lens •

• Speeds 1/1,500 Sec. • New

LVS Shutter

• Deluxe case & B.C.

folding flash.....\$16.95

• Deluxe case & B.C.

folding flash.....\$16.95

• Deluxe case & B.C.

folding flash.....\$16.95

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with case 62.50 44.95
Brand New dem.

BC Pocket Flashgun With Folding Fan Reflector and Case



List \$12.95
Sale **\$4.89**
with BC Battery

4 LIGHT BAR COMPLETE WITH 4 BULBS!



• Folding-Compact • Pistol Grip
List 24.95 **\$10.82**
w/Bulbs
less Bulbs 7.76

MINOX III-S Miniature F3.5



List \$139.50!
NOW ONLY **\$88.50**
LM
Built-in Flash Synchronization • Speeds to 1/1000 • Automatic Film Transport w/case & chain.

BRAND NEW MINOLTA "A-2"



f2.8 Rokkor, MXV 1/400 sec., brilliant R.F. list 79.95 w/case.
SPECIAL **\$56.95**
Minolta A list 50.95 w/case Spec. 44.50 Your equip. in trade. Write.

Braun Hobby Automatic



AC & BATTERY ELECTRONIC FLASH UNIT! List \$106.00! **\$67.50** Dem
NOW ONLY—
100-Watt-Seconds • Fast Recycle 1/1000 Sec. Flash • Color Guide: 50

REVERE 555



Semi - Automatic; blower cooled; Condensers. Complete WITH CASE. Reg. \$89.50 NEW **\$61.73**
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Revere 888D 114.50
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For 35mm and Bantam slides. Easy automatic changer holds 36 Ready mounts. Magnifies 4 1/2 times, 6" x 6" screen. Reg. \$37.50 **\$24.50** SPL.
Field Case list 4.95 Special 2.42

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10" to 54" w/Pan-head. List 14.95 SPECIAL **\$9.92**

EXA mx



With F2.9 ctd. Lens Waist Level FINDER! Reg. 119.50 SPECIAL **\$52.50** • disc.
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• BC Flashgun 6.95
• F4.5 Telephoto Iso 100mm 18.95
Latest 1058 Exa instead of Disc. Model! Add 6.90

GRAPHIC 35mm Camera With Coupled RF and F3.5 Coated Lens



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• Full Flash Synchronization • Speeds to 1/300 • Delayed Action Self-Timer

Brand new Latest REVERE 777, 8mm PROJECTOR



f/1.6 lens, AC/DC, 500-watt lamp
List 127.50 **\$87.50**
Special New

SPECIAL! BRAND NEW! WOLLENSAK 8mm Turret



Model '43' Movie Camera with f1.9 Ctd. Raptor, 9mm W.A., 32.5mm Tele All F1.9 lenses
List \$99.50! **\$71.70** ONLY

Portrait Meter



A must for indoor lighting. List 4.95 **\$2.97** Special



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Now Only **\$124.50**
Coupled RF 4.5 lens full flash synch. Write for other Polaroid Prices

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With f/3.5 ctd. Xenar lens and new Eveready case
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Automatic — MX synch. — cross-cpld. selftimer. Write for other Polaroid Prices

Brand new genuine Ihagoo Penta-Prism RANGEFINDER



For Exakta and Exa cameras. With rangefinder glass and leather case. Reg. \$85.00 **\$32.50** NOW
Rangefinder insert with purchase above 4.95
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• 3 lens turret
• Viewfinder
• 8mm roll film
List 84.75 **\$62.75**
New Special case 5.50



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New Single Flash Post Model

With Automatic F2.8 Westalar 78.50
With Automatic F2 Westagon 95.95
With F1.9 Primoplant preset or F2.8 Tessar preset 68.95
Eveready Case Reg. 12.50 13.75
BC Flashgun Reg. 13.50 24.95
135mm F3.5 tel. 14.92
Zeiss Prism



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• Slides never pop! • Fingertip automatic
Balematic 500, with Fully Automatic Operation. List \$149.50 Sale **\$117.50**
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You may deduct from above prices a discount of 25% off.



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24.95 Starflex deluxe 19.42
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All Kits Include Flash Attach plus Stand. Kodak Equip.



DUAL 2 1/4 x 2 1/4 Projector-35mm

300 watt, quiet fan cooling, slide storage drawer, compact, handles 35mm, super-slides, or full 2 1/4 x 2 1/4 slides in all mounts. List 39.95 **\$29.92** ONLY

BRAND NEW! AIRES III L 1957 MODEL

35mm with f 6 Element f 1.9 lens with LV5 shutter & rapid rewind lever. Never before such value. Single stroke rapid film wind lever. 1 sec. to 1/500 sec. Full MX sync. Brilliant range finder. Focuses 20" to infinity. Includes leather case. List w/case \$112. SALE **\$78.95**



AKAREX III w/F2 XENON

• Full Sync MX
• Cpl RF
• Rapid Wind
• Sync Comp.
• Interchangeable
• Parallax Cor.
List 139.50

Write For Trade-ins
Free Literature



Brand New LATEST IMPROVED MODEL Ultrablitz Expert IV

NOW List 69.95 **\$39.97** NEW
Coil Cord, Bracket, Batt. 2.47

Weston Master III LIGHT METER

w/case **\$23.95**

G.E. GUARDIAN

Direct reading, push-button meter. Pointer lock. Very sensitive. With case. Reg. \$34.50 Spl. **\$25.90**

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Money refunded, if not satisfied, 30 days.

Orders under \$5.00—
50¢ handling charge
SEND FOR FREE
N-12 CATALOGUE

Fantabulous Low Prices

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	List	Our Price
35mm Proj. 888	144.50	99.79
35mm Proj. 8880	159.50	114.50
35mm Proj. 933	79.50	56.92
35mm Proj. 955	89.50	61.73
8mm roll C38 f1.9	122.50	61.73
8mm roll C39 f1.9	122.50	77.98
8mm roll C40 f1.9	122.50	77.98
8mm roll C41 f1.9	122.50	77.98
8mm mag. C40 f1.9	122.50	68.57
8mm mag. C41 f1.9	122.50	68.57
8mm mag. C42 f1.9	122.50	68.57
8mm mag. C43 f1.9	122.50	68.57
8mm mag. C44 f1.9	122.50	68.57
8mm mag. C45 f1.9	122.50	68.57
8mm mag. C46 f1.9	122.50	68.57
8mm mag. C47 f1.9	122.50	68.57
8mm mag. C48 f1.9	122.50	68.57
8mm mag. C49 f1.9	122.50	68.57
8mm mag. C50 f1.9	122.50	68.57
8mm mag. C51 f1.9	122.50	68.57
8mm mag. C52 f1.9	122.50	68.57
8mm mag. C53 f1.9	122.50	68.57
8mm mag. C54 f1.9	122.50	68.57
8mm mag. C55 f1.9	122.50	68.57
8mm mag. C56 f1.9	122.50	68.57
8mm mag. C57 f1.9	122.50	68.57
8mm mag. C58 f1.9	122.50	68.57
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8mm mag. C60 f1.9	122.50	68.57
8mm mag. C61 f1.9	122.50	68.57
8mm mag. C62 f1.9	122.50	68.57
8mm mag. C63 f1.9	122.50	68.57
8mm mag. C64 f1.9	122.50	68.57
8mm mag. C65 f1.9	122.50	68.57
8mm mag. C66 f1.9	122.50	68.57
8mm mag. C67 f1.9	122.50	68.57
8mm mag. C68 f1.9	122.50	68.57
8mm mag. C69 f1.9	122.50	68.57
8mm mag. C70 f1.9	122.50	68.57
8mm mag. C71 f1.9	122.50	68.57
8mm mag. C72 f1.9	122.50	68.57
8mm mag. C73 f1.9	122.50	68.57
8mm mag. C74 f1.9	122.50	68.57
8mm mag. C75 f1.9	122.50	68.57
8mm mag. C76 f1.9	122.50	68.57
8mm mag. C77 f1.9	122.50	68.57
8mm mag. C78 f1.9	122.50	68.57
8mm mag. C79 f1.9	122.50	68.57
8mm mag. C80 f1.9	122.50	68.57
8mm mag. C81 f1.9	122.50	68.57
8mm mag. C82 f1.9	122.50	68.57
8mm mag. C83 f1.9	122.50	68.57
8mm mag. C84 f1.9	122.50	68.57
8mm mag. C85 f1.9	122.50	68.57
8mm mag. C86 f1.9	122.50	68.57
8mm mag. C87 f1.9	122.50	68.57
8mm mag. C88 f1.9	122.50	68.57
8mm mag. C89 f1.9	122.50	68.57
8mm mag. C90 f1.9	122.50	68.57
8mm mag. C91 f1.9	122.50	68.57
8mm mag. C92 f1.9	122.50	68.57
8mm mag. C93 f1.9	122.50	68.57
8mm mag. C94 f1.9	122.50	68.57
8mm mag. C95 f1.9	122.50	68.57
8mm mag. C96 f1.9	122.50	68.57
8mm mag. C97 f1.9	122.50	68.57
8mm mag. C98 f1.9	122.50	68.57
8mm mag. C99 f1.9	122.50	68.57
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WOLLENSAK

8mm roll Tur. f1.9	99.50	74.50
Recorder 1500	189.50	144.50
8mm proj. 715	162.50	129.50

REALIST 620

Projector for 2 1/4 x 2 1/4 or 35mm Slides	39.95	29.95
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STAR 8 CONQUEST (elevating type)	21.50	13.40
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Filters	8.07	8.95
Airequip 4 Way Filter Case	17.06	11.99
Airequip Photostat 4x5	14.34	9.95
Airequip Print. 4x5	10.77	7.95
Brumberger 8x7 Adj Metal	24.95	17.49
Brumberger 8x7 Safe Lite OA	5.95	4.35
Brumberger 8x10 Paper Safe	13.95	9.37
Brumberger 11x14 Paper Safe	24.95	17.49
Fedco Focus Rite Enlarging	3.25	1.75
Fedco No. 100 Dryer 11x14	9.95	6.75
Gr Lab 2100 Luminous	24.95	17.30
Timer	49.95	33.99
Premier A2 Photo Dryer	37.50	18.95
11x14	4.95	3.50
Dialmaster 1" Brush	15.00	10.97
Spot-O-Matic Enlarging Meter	8.95	6.75
Nikor 35mm Tank single reel	9.95	7.49
Nikor 120-420 Tank w/Reel	4.95	3.99
Nikor 30 Exp. 35mm wide	4.95	3.99
Nikor 36 Exp. 35mm wide	4.95	3.99
Nikor 42 Exp. 35mm wide	4.95	3.99
Nikor 48 Exp. 35mm wide	4.95	3.99
Nikor 54 Exp. 35mm wide	4.95	3.99
Nikor 60 Exp. 35mm wide	4.95	3.99
Nikor 66 Exp. 35mm wide	4.95	3.99
Nikor 72 Exp. 35mm wide	4.95	3.99
Nikor 78 Exp. 35mm wide	4.95	3.99
Nikor 84 Exp. 35mm wide	4.95	3.99
Nikor 90 Exp. 35mm wide	4.95	3.99
Nikor 96 Exp. 35mm wide	4.95	3.99
Nikor 102 Exp. 35mm wide	4.95	3.99
Nikor 108 Exp. 35mm wide	4.95	3.99
Nikor 114 Exp. 35mm wide	4.95	3.99
Nikor 120 Exp. 35mm wide	4.95	3.99
Nikor 126 Exp. 35mm wide	4.95	3.99
Nikor 132 Exp. 35mm wide	4.95	3.99
Nikor 138 Exp. 35mm wide	4.95	3.99
Nikor 144 Exp. 35mm wide	4.95	3.99
Nikor 150 Exp. 35mm wide	4.95	3.99
Nikor 156 Exp. 35mm wide	4.95	3.99
Nikor 162 Exp. 35mm wide	4.95	3.99
Nikor 168 Exp. 35mm wide	4.95	3.99
Nikor 174 Exp. 35mm wide	4.95	3.99
Nikor 180 Exp. 35mm wide	4.95	3.99
Nikor 186 Exp. 35mm wide	4.95	3.99
Nikor 192 Exp. 35mm wide	4.95	3.99
Nikor 198 Exp. 35mm wide	4.95	3.99
Nikor 204 Exp. 35mm wide	4.95	3.99
Nikor 210 Exp. 35mm wide	4.95	3.99
Nikor 216 Exp. 35mm wide	4.95	3.99
Nikor 222 Exp. 35mm wide	4.95	3.99
Nikor 228 Exp. 35mm wide	4.95	3.99
Nikor 234 Exp. 35mm wide	4.95	3.99
Nikor 240 Exp. 35mm wide	4.95	3.99
Nikor 246 Exp. 35mm wide	4.95	3.99
Nikor 252 Exp. 35mm wide	4.95	3.99
Nikor 258 Exp. 35mm wide	4.95	3.99
Nikor 264 Exp. 35mm wide	4.95	3.99
Nikor 270 Exp. 35mm wide	4.95	3.99
Nikor 276 Exp. 35mm wide	4.95	3.99
Nikor 282 Exp. 35mm wide	4.95	3.99
Nikor 288 Exp. 35mm wide	4.95	3.99
Nikor 294 Exp. 35mm wide	4.95	3.99
Nikor 300 Exp. 35mm wide	4.95	3.99
Nikor 306 Exp. 35mm wide	4.95	3.99
Nikor 312 Exp. 35mm wide	4.95	3.99
Nikor 318 Exp. 35mm wide	4.95	3.99
Nikor 324 Exp. 35mm wide	4.95	3.99
Nikor 330 Exp. 35mm wide	4.95	3.99
Nikor 336 Exp. 35mm wide	4.95	3.99
Nikor 342 Exp. 35mm wide	4.95	3.99
Nikor 348 Exp. 35mm wide	4.95	3.99
Nikor 354 Exp. 35mm wide	4.95	3.99
Nikor 360 Exp. 35mm wide	4.95	3.99
Nikor 366 Exp. 35mm wide	4.95	3.99
Nikor 372 Exp. 35mm wide	4.95	3.99
Nikor 378 Exp. 35mm wide	4.95	3.99
Nikor 384 Exp. 35mm wide	4.95	3.99
Nikor 390 Exp. 35mm wide	4.95	3.99
Nikor 396 Exp. 35mm wide	4.95	3.99
Nikor 402 Exp. 35mm wide	4.95	3.99
Nikor 408 Exp. 35mm wide	4.95	3.99
Nikor 414 Exp. 35mm wide	4.95	3.99
Nikor 420 Exp. 35mm wide	4.95	3.99
Nikor 426 Exp. 35mm wide	4.95	3.99
Nikor 432 Exp. 35mm wide	4.95	3.99
Nikor 438 Exp. 35mm wide	4.95	3.99
Nikor 444 Exp. 35mm wide	4.95	3.99
Nikor 450 Exp. 35mm wide	4.95	3.99
Nikor 456 Exp. 35mm wide	4.95	3.99
Nikor 462 Exp. 35mm wide	4.95	3.99
Nikor 468 Exp. 35mm wide	4.95	3.99
Nikor 474 Exp. 35mm wide	4.95	3.99
Nikor 480 Exp. 35mm wide	4.95	3.99
Nikor 486 Exp. 35mm wide	4.95	3.99
Nikor 492 Exp. 35mm wide	4.95	3.99
Nikor 498 Exp. 35mm wide	4.95	3.99
Nikor 504 Exp. 35mm wide	4.95	3.99
Nikor 510 Exp. 35mm wide	4.95	3.99
Nikor 516 Exp. 35mm wide	4.95	3.99
Nikor 522 Exp. 35mm wide	4.95	3.99
Nikor 528 Exp. 35mm wide	4.95	3.99
Nikor 534 Exp. 35mm wide	4.95	3.99
Nikor 540 Exp. 35mm wide	4.95	3.99
Nikor 546 Exp. 35mm wide	4.95	3.99
Nikor 552 Exp. 35mm wide	4.95	3.99
Nikor 558 Exp. 35mm wide	4.95	3.99
Nikor 564 Exp. 35mm wide	4.95	3.99
Nikor 570 Exp. 35mm wide	4.95	3.99
Nikor 576 Exp. 35mm wide	4.95	3.99
Nikor 582 Exp. 35mm wide	4.95	3.99
Nikor 588 Exp. 35mm wide	4.95	3.99
Nikor 594 Exp. 35mm wide	4.95	3.99
Nikor 600 Exp. 35mm wide	4.95	3.99
Nikor 606 Exp. 35mm wide	4.95	3.99
Nikor 612 Exp. 35mm wide	4.95	3.99
Nikor 618 Exp. 35mm wide	4.95	3.99
Nikor 624 Exp. 35mm wide	4.95	3.99
Nikor 630 Exp. 35mm wide	4.95	3.99
Nikor 636 Exp. 35mm wide	4.95	3.99
Nikor 642 Exp. 35mm wide	4.95	3.99
Nikor 648 Exp. 35mm wide	4.95	3.99
Nikor 654 Exp. 35mm wide	4.95	3.99
Nikor 660 Exp. 35mm wide	4.95	3.99
Nikor 666 Exp. 35mm wide	4.95	3.99
Nikor 672 Exp. 35mm wide	4.95	3.99
Nikor 678 Exp. 35mm wide	4.95	3.99
Nikor 684 Exp. 35mm wide	4.95	3.99
Nikor 690 Exp. 35mm wide	4.95	3.99
Nikor 696 Exp. 35mm wide	4.95	3.99
Nikor 702 Exp. 35mm wide	4.95	3.99
Nikor 708 Exp. 35mm wide	4.95	3.99
Nikor 714 Exp. 35mm wide	4.95	3.99
Nikor 720 Exp. 35mm wide	4.95	3.99
Nikor 726 Exp. 35mm wide	4.95	3.99
Nikor 732 Exp. 35mm wide	4.95	3.99
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Nikor 744 Exp. 35mm wide	4.95	3.99
Nikor 750 Exp. 35mm wide	4.95	3.99
Nikor 756 Exp. 35mm wide	4.95	3.99
Nikor 762 Exp. 35mm wide	4.95	3.99
Nikor 768 Exp. 35mm wide	4.95	3.99
Nikor 774 Exp. 35mm wide	4.95	3.99
Nikor 780 Exp. 35mm wide	4.95	3.99
Nikor 786 Exp. 35mm wide	4.95	3.99
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Nikor 870 Exp. 35mm wide	4.95	3.99
Nikor 876 Exp. 35mm wide	4.95	3.99
Nikor 882 Exp. 35mm wide	4.95	3.99
Nikor 888 Exp. 35mm wide	4.95	3.99
Nikor 894 Exp. 35mm wide	4.95	3.99
Nikor 900 Exp. 35mm wide	4.95	3.99
Nikor 906 Exp. 35mm wide	4.95	3.99
Nikor 912 Exp. 35mm wide	4.95	3.99
Nikor 918 Exp. 35mm wide	4.95	3.99
Nikor 924 Exp. 35mm wide	4.95	3.99
Nikor 930 Exp. 35mm wide	4.95	3.99
Nikor 936 Exp. 35mm wide	4.95	3.99
Nikor 942 Exp. 35mm wide	4.95	3.99
Nikor 948 Exp. 35mm wide	4.95	3.99
Nikor 954 Exp. 35mm wide	4.95	3.99
Nikor 960 Exp. 35mm wide	4.95	3.99
Nikor 966 Exp. 35mm wide	4.95	3.99
Nikor 972 Exp. 35mm wide	4.95	3.99
Nikor 978 Exp. 35mm wide	4.95	3.99
Nikor 984 Exp. 35mm wide	4.95	3.99
Nikor 990 Exp. 35mm wide	4.95	3.99
Nikor 996 Exp. 35mm wide	4.95	3.99
Nikor 1002 Exp. 35mm wide	4.95	3.99
Nikor 1008 Exp. 35mm wide	4.95	3.99
Nikor 1014 Exp. 35mm wide	4.95	3.99
Nikor 1020 Exp. 35mm wide	4.95	3.99
Nikor 1026 Exp. 35mm wide	4.95	3.99
Nikor 1032 Exp. 35mm wide	4.95	3.99
Nikor 1038 Exp. 35mm wide	4.95	3.99
Nikor 1044 Exp. 35mm wide	4.95	3.99
Nikor 1050 Exp. 35mm wide	4.95	3.99
Nikor 1056 Exp. 35mm wide	4.95	3.99
Nikor 1062 Exp. 35mm wide	4.95	3.99
Nikor 1068 Exp. 35mm wide	4.95	3.99
Nikor 1074 Exp. 35mm wide	4.95	3.99
Nikor 1080 Exp. 35mm wide	4.95	3.99
Nikor 1086 Exp. 35mm wide	4.95	3.99
Nikor 1092 Exp. 35mm wide	4.95	3.99
Nikor 1098 Exp. 35mm wide	4.95	3.99
Nikor 1104 Exp. 35mm wide	4.95	3.99
Nikor 1110 Exp. 35mm wide	4.95	3.99
Nikor 1116 Exp. 35mm wide	4.95	3.99
Nikor 1122 Exp. 35mm wide	4.95	3.99
Nikor 1128 Exp. 35mm wide	4.95	3.99
Nikor 1134 Exp. 35mm wide	4.95	3.99
Nikor 1140 Exp. 35mm wide	4.95	3.99
Nikor 1146 Exp. 35mm wide	4.95	3.99
Nikor 1152 Exp. 35mm wide	4.95	3.99
Nikor 1158 Exp. 35mm wide	4.95	3.99
Nikor 1164 Exp. 35mm wide	4.95	3.99
Nikor 1170 Exp. 35mm wide	4.95	3.99
Nikor 1176 Exp. 35mm wide	4.95	3.99
Nikor 1182 Exp. 35mm wide	4.95	3.99
Nikor 1188 Exp. 35mm wide	4.95	3.99
Nikor 1194 Exp. 35mm wide	4.95	3.99
Nikor 1200 Exp. 35mm wide	4.95	3.99
Nikor 1206 Exp. 35mm wide	4.95	3.99
Nikor 1212 Exp. 35mm wide	4.95	3.99
Nikor 1218 Exp. 35mm wide	4.95	3.99
Nikor 1224 Exp. 35mm wide	4.95	3.99
Nikor 1230 Exp. 35mm wide	4.95	3.99
Nikor 1236 Exp. 35mm wide	4.95	3.99
Nikor 1242 Exp. 35mm wide	4.95	3.99
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Nikor 1254 Exp. 35mm wide	4.95	3.99
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Nikor 1308 Exp. 35mm wide	4.95	3.99
Nikor 1314 Exp. 35mm wide	4.95	3.99
Nikor 1320 Exp. 35mm wide	4.95	3.99
Nikor 1326 Exp. 35mm wide	4.95	3.99
Nikor 1332 Exp. 35mm wide	4.95	3.99
Nikor 1338 Exp. 35mm wide	4.95	3.99
Nikor 1344 Exp. 35mm wide	4.95	3.99
Nikor 1350 Exp. 35mm wide	4.95	3.99
Nikor 1356 Exp. 35mm wide	4.95	3.99
Nikor 1362 Exp. 35mm wide	4.95	3.99
Nikor 1368 Exp. 35mm wide	4.95	3.99
Nikor 1374 Exp. 35mm wide	4.95	3.99
Nikor 1380 Exp. 35mm wide	4.95	3.99
Nikor 1386 Exp. 35mm wide	4.95	3.99
Nikor 1392 Exp. 35mm wide	4.95	3.99
Nikor 1398 Exp. 35mm wide	4.95	3.99
Nikor 1404 Exp. 35mm wide	4.95	3.99
Nikor 1410 Exp. 35mm wide	4.95	3.99
Nikor 1416 Exp. 35mm wide	4.95	3.99
Nikor 1422 Exp. 35mm wide	4.95	3.99
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Nikor 1476 Exp. 35mm wide	4.95	3.99
Nikor 1482 Exp. 35mm wide	4.95	3.99
Nikor 1488 Exp. 35mm wide	4.95	3.99
Nikor 1494 Exp. 35mm wide	4.95	3.99
Nikor 1500 Exp. 35mm wide	4.95	3.99
Nikor 1506 Exp. 35mm wide	4.95	3.99
Nikor 1512 Exp. 35mm wide	4.95	3.99
Nikor 1518 Exp. 35mm wide	4.95	3.99
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Nikor 1542 Exp. 35mm wide	4.95	3.99
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Nikor 1572 Exp. 35mm wide	4.95	3.99
Nikor 1578 Exp. 35mm wide	4.95	3.99
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Nikor 1590 Exp. 35mm wide	4.95	3.99
Nikor 1596 Exp. 35mm wide	4.95	3.99
Nikor 1602 Exp. 35mm wide	4.95	3.99
Nikor 1608 Exp. 35mm wide	4.95	3.99
Nikor 1614 Exp. 35mm wide	4.95	3.99
Nikor 1620 Exp. 35mm wide	4.95	3.99
Nikor 1626 Exp. 35mm wide	4.95	3.99
Nikor 1632 Exp. 35mm wide	4.95	3.99
Nikor 1638 Exp. 35mm wide	4.95	3.99
Nikor 1644 Exp. 35mm wide	4.95	3.99
Nikor 1650 Exp. 35mm wide	4.95	3.99
Nikor 1656 Exp. 35mm wide	4.95	3.99
Nikor 1662 Exp. 35mm wide	4.95	3.99
Nikor 1668 Exp. 35mm wide	4.95	3.99
Nikor 1674 Exp. 35mm wide	4.95	3.99
Nikor 1680 Exp. 35mm wide	4.95	3.99
Nikor 1686 Exp. 35mm wide	4.95	3.99
Nikor 1692 Exp. 35mm wide	4.95	3.99
Nikor 1698 Exp. 35mm wide	4.95	3.99
Nikor 1704 Exp. 35mm wide	4.95	3.99
Nikor 1710 Exp. 35mm wide	4.95	3.99
Nikor 1716 Exp. 35mm wide	4.95	3.99
Nikor 1722 Exp. 35mm wide	4.95	3.99
Nikor 1728 Exp. 35mm wide	4.95	3.99
Nikor 1734 Exp. 35mm wide	4.95	3.99
Nikor 1740 Exp. 35mm wide	4.95	3.99
Nikor 1746 Exp. 35mm wide	4.95	3.99
Nikor 1752 Exp. 35mm wide	4.95	3.99
Nikor 1758 Exp. 35mm wide	4.95	3.99
Nikor 1764 Exp. 35mm wide	4.95	3.99
Nikor 1770 Exp. 35mm wide	4.95	3.99
Nikor 1776 Exp. 35mm wide	4.95	3.99
Nikor 1782 Exp. 35mm wide	4.95	3.99
Nikor 1788 Exp. 35mm wide		

BUYING GUIDE

(Continued from page 164)

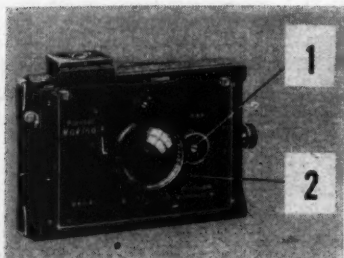
Shutter: Compur (after 1924, came with improved Compur, with speeds to 1 sec., plus B & T).

Flash Sync: See note above.

Special Features: Interchangeable backs; frame-type and Newton optical-type viewfinders.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: \$22-\$41



Special Identification Points: 1. Differentiated from later (1932) version by not having rim-set shutter; 2. Made only with black finish.

MAKINA I (1932 model)

Introduced: 1932 Discontinued: 1933

Lens: 100mm, f/2.9 Anticomar with interchangeable front elements.

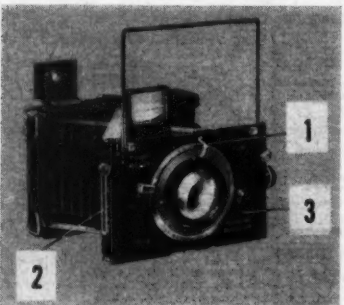
Shutter: Compur IS, 1 to 1/200 sec., plus B & T and self-timer.

Special Features: Same as Model I, 1920-1932 version.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Differentiated from earlier versions of Makina I by having rim-set shutter; 2. Differentiated from Makina



II by having lens diaphragm settings on side, instead of front of camera; 3. Black finish only.

MAKINA II

Introduced: 1933 Discontinued: 1939

Lens: 100mm, f/2.9 Anticomar. Front elements interchange with following accessory objectives: 210mm, f/5.4 Tele Makinar; 210mm, f/6.3 Tele Makinar; or 73mm, f/6.8 Wide Angle Orthar.

(Continued on page 170)

WHOLESALE ONLY UNBELIEVABLE PRICES

(Any order less than 1 doz, not considered wholesale.)

FILM Within date

ANSCO COLOR FILM

(with Processing)

8mm 25' dbl. roll	1 doz.	\$24.00
8mm 25' dbl. mag	1 doz.	30.00
16mm 100' available in both		
sound or silent	1 doz.	55.00
16mm 50' magazine	1 doz.	35.00

ANSCO MOVIE FILM

BLACK AND WHITE (with Processing)

8mm 25' dbl. roll	1 doz.	\$12.00
8mm 25' dbl. mag	1 doz.	20.00
16mm 100' available in both		
sound or silent	1 doz.	25.00
16mm 50' magazine	1 doz.	20.00

ROLL FILM

#127, 120, 620, 116, 616		
Black and White	50 for \$	9.50
120 & 620 Color	1 doz.	7.80
35mm 20 exp.		
Black & White	1 doz.	2.75
35mm 36 exp.		
Black & White	1 doz.	5.00
AERO EKTACHROME #120 and		
#620 Weston 80	1 doz.	8.00
Anso Color or		
Ektachrome 20 exp.	1 doz.	10.00
Super X or Double X and		
Plus X	1000 ft.	12.00
35mm 20 exp. KODACHROME,		
1957 dating		.93

ANSCO COLOR IN BULK

16mm	400 ft.	\$15.00
8mm 25 ft. on camera spools	1 doz.	14.00
8mm 100 ft.	1 doz.	42.00

(Processing not included)

SPECIAL OFFERING in 8mm and 16mm COLOR SUBJECTS

(CARTOONS AND FAIRY STORIES)

50 ft. 8mm	1 doz.	\$20.00
200 ft. 8mm	1 doz.	75.00
100 ft. 16mm	1 doz.	80.00
400 ft. 16mm (silent)	1 doz.	200.00
400 ft. 16mm (sound)	1 doz.	250.00

SPECIAL OFFERING in 8mm and 16mm SUBJECTS

(CARTOONS AND FAIRY STORIES)

50 ft. 8mm	1 doz.	\$10.00
200 ft. 8mm	1 doz.	35.00
100 ft. 16mm	1 doz.	20.00
400 ft. 16mm (silent)	1 doz.	75.00
400 ft. 16mm (sound)	1 doz.	100.00

BULK MOVIE FILM

8mm x 25 ft. dbl. (Packed on Camera Spool)	1 doz.	\$ 8.00
16mm x 50' No Processing	50 rolls	\$40.00
16mm x 100' No Processing	50 rolls	45.00
25 ft. double, 8mm High Speed, B&W EASTMAN KODAK, Weston 250—developed free by Eastman Kodak		1.50
50 ft. 16mm B&W EASTMAN KODAK—developed free by Eastman Kodak		1.70
100 ft. 16mm B&W EASTMAN KODAK—available in SUPER X and SUPER XX, developed free by Eastman Kodak		3.40

ACCESSORIES

TAKE ADVANTAGE OF THESE BARGAINS

B & W film . . . 100 ft. on Bolex Spool	1 doz.	\$42.00
100 ft. Anso Color on Bolex Spool 8mm	1 doz.	60.00
Empty 16mm magazines made by Kodak	1 doz.	8.00
8mm Empty mag.	1 doz.	8.00
16mm 100 ft. Camera Reels	1 doz.	3.50
Cans for such reels	1 doz.	1.00
Empty cartridges for 35mm 20 or 36 exp.	1 doz.	1.00
Cans for 35mm cart.	1 doz.	1.00
400' . . . 8mm empty reels	1 doz.	5.00
Dble. cans	1 doz.	3.00
8mm camera reels	1 doz.	1.00
Cans for 25 ft. double	1 doz.	2.50
800' reels 16mm	1 doz.	7.50
Cans (double)	1 doz.	3.50
16mm—1200 ft.	1 doz.	10.50
Cans	1 doz.	1.50
1000 ft.—16mm	1 doz.	14.00
Cans	1 doz.	5.50
200 ft. 8mm Camera Reels	1 doz.	3.00
200 ft. 8mm Reels	1 doz.	3.00
400 ft. 16mm Cans	1 doz.	3.00
400 ft. 16mm Reels	1 doz.	3.00
10x10 Projection Paper, Contrast #3	1 doz.	3.19
Rococo Cement—(bottle)		.43

WHY NOT HAVE YOUR OWN FILM LIBRARY?

You can secure from us new cartoons of DISNEY and other makes—full version—200' 8mm and 16mm 400' available in 12 assorted subjects for the following prices.

	OUR PRICE	REG. PRICE
8mm 200' 12 subj. for	\$35.00	\$100.00
16mm 400' 12 subj. for	100.00	250.00

BUY AND CONVINCE YOURSELF !!!

HAL ROACH COMEDIES—(12 Ass't)

8mm subjects 200'	\$35.00	\$100.00
16mm subjects 400'	100.00	250.00

CHARLIE CHAPLINS—(12)

8mm	35.00	100.00
16mm	100.00	250.00

IN THE BANK—2 reels THE NEW JANITOR—1 reel
NIGHT AT THE SHOW—1 reel
2 reels FILM JOHNNY—1 reel
THE TRAMP—2 reels BY THE SEA—1 reel
THE CHAMPION—2 reels IN THE PARK—1 reel

MACK SENNETT COMEDIES—(12)

8mm 200'	35.00	100.00
16mm 400'	100.00	250.00

"OUR GANG" COMEDIES—(12)

8mm 200'	35.00	100.00
16mm 400'	100.00	250.00

GRANTLAND RICE SPORT REELS—(12)

8mm 200'	35.00	100.00
16mm 400'	100.00	250.00

RUNNING THE SCALES MONARCHS OF THE FIELD
GRIDIRON GLORY SELF-DEFENSE
STAMINA CHAMPION MAKERS
BODY BUILDERS HOOKED
CLOWNING THE GAME FELINE FIGHTERS
SONS OF SWAT SPORTS AFLOAT

PRIZE FIGHTS—(12)

8mm 200'	35.00	100.00
16mm 400'	100.00	250.00

LOUIS—BAER SCHMELING—STRIBLING
LOUIS—SCHMELING SHARKEY—WALKER
LOUIS—ROPER SHARKEY—STRIBLING
LOUIS—WILSON DEMPSEY—SHARKEY
SCHMELING—LOUIS PETROLI—BATTALINA
SCHMELING—WALKER CONZONERI—PETROLI

SPECIAL OFFERING—RELIGIOUS SUBJECTS

Available in 8mm and 16mm

	Per Reel	Our Price	Reg. Price
LIFE OF CHRIST 7 reels, 8mm		\$ 5.00	\$10.00
CROWN OF THORNS 8 reels (sil.) 16mm		10.00	15.00
ST. FRANCIS 7 reels (sound) 16mm		12.50	20.00
ST. ANTHONY OF PADUA 9 reels			
MESSIAH OF THE BLESSED VIRGIN 9 reels (Story of Lourdes)			
THE CHRISTUS 7 reels			
JOAN OF ARC 5 reels			

(All 16mm films which are approx. 400 ft. per reel can be obtained in sound or silent. The 8mm is approx. 200 ft. per reel.)

ALSO AVAILABLE ARE (12) ASSORTED FEATURES AT BARGAIN PRICE

These features consist of 5, 6, and 7 reels. Running time over one hour—

	OUR PRICE	REG. PRICE
(12-8mm ass't feat.)	\$275.00	\$550.00
(12-16mm ass't feat.) (silent or sound)	550.00	1200.00

IMPORTANT !!!

When ordering please state whether you want silent or sound features in 16mm. The following are titles of features available.

DANCING MOTHERS—	STAR
WE'RE IN THE NAVY NOW—	Clara Bow
LADY WINDERMERE'S FAN—	Wallace Beery
YANKEE CLIPPER—	Nedda Lyons
NIGHTCITY—	William Boyd
LOST WORLD—	Rin Tin Tin
COVERED WAGON—	Wallace Beery
LEATHERNECKS—	Helen Hale
LAST OF THE MONICANS—	William Boyd
CAPTAIN FLY-BY-NIGHT—	All Star cast
YOUNG APRIL—	Johnny Walker
CAPTAIN SWAGGER—	Joseph Schildkraut
	Red La Roque

SPECIAL OFFER

Anso 10 exposures color 35mm. 1 doz. \$5.00

MOVIE FILM SPECIAL

100' 8mm double.....1 doz. \$20.00

Packed on 4 Camera Spools 25'. 1 doz. 5.00

ASTRA PHOTO PRODUCTS

243 WEST 55TH STREET
NEW YORK 19, N. Y.

UNBELIEVABLE VALUES

DEVELOPING SERVICE AVAILABLE

100' 16mm B&W\$1.25
8mm 25' double B&W\$0.60

35mm COLOR FILM

Available in ANSCO TUNGSTEN
35mmx100'\$22.00
Available in TUNGSTEN or DAYLIGHT AERO
EKTACHROME—DAYLIGHT SPEED—100 ASA
20 exp. rolls, including processing.

\$1.50 (3 for \$4.25)
20 exp. rolls INDOOR ANSCO COLOR
\$1.00 (3 for \$2.75)
AERO EKTACHROME CHEMICALS—

1½ gal.\$2.95
50 ft. 35mm—\$5 Plus X or XX
A \$100.00 purchase of film (color or B&W) will
allow a brand new Eastman Kodak Brownie
8mm for \$1.00—Regular price for such a
camera alone—\$35.00

This offer is in addition to our Unbelievable
Value of film on which you save 50%.
A \$200.00 purchase will entitle you to a Kodak
Brownie camera and a 8mm projector for
\$1.00. Regular price close to \$100.00

A \$50.00 purchase will entitle you to a brand
new Brownie Camera with flash and film and
bulbs. Regular price for Camera and film
(color as well as B&W) \$25.00—in any store.

A \$25.00 purchase entitles you to a 127 Camera
and 3 rolls of color film and 6 rolls of black
and white. Real value in store—\$10.00

Additional \$25 purchase entitles you to East-
man Kodak carrying case of genuine leather.
Reg. price of case alone—\$11.25

35mm BLACK & WHITE BULK (100 ft. rolls)

ANSCO FINOPAN \$1.25 (Weston 24) Kodak
Plus X, Background X, Double X,
Infra Red\$1.40
If you buy \$25.00 worth of film—one 35mm
loader free regular price \$5.95

ACCESSORIES

FILM DRIERS—good for paper and films
only \$1.50
CHEMICAL KITS—D88, one gallon size good
for reversal or straight B&W processing—for
paper & film. In powder form\$1.25
(Include postage)

Take advantage of these bargains.

B&W film—100 ft. on Bolex Spool\$2.50
100 ft. Anso Color on Bolex spool 8mm5.50
With devel.6.50
Empty 16mm magazines made by Kodak75¢
8mm empty mag.75¢
16mm 100 ft. camera reels25¢
Cans for such reels10¢
Empty cartridges for 35mm 20 or 36 exp.
10¢ each, \$1.00 a dozen
Cans for 35mm cart.10¢
800 ft. reels, 16mm75¢
16mm—1200 ft.\$1.00, Cans—50¢
1600 ft.—16mm\$1.25, Cans—50¢
Kodachrome reloads—20 exp.\$1.10
100 ft.\$30.00
Special offer Anso 10 exp.45¢
400'—8mm empty reels50¢
Dble. cans35¢, 3 for \$1.00
35mm Bulk film Loader daylighte
100 ft. Negative 35mm film, Plus X or XX
12 cartridges.....All this for \$5.95
Roscoe Cement—(bottle)35¢

PHOTOGRAPHIC CONTACT PAPER

Eastman Kodak 5W Semi-matte—Contrast #4
100 sheets per box, 10x10\$2.50

10 x 10 Projection Paper, Contrast #3 \$3.75

ANSCO COLOR IN BULK

16mm—4¢ per ft.min. order 50 ft.
8mm—25 ft. on camera spools\$1.25
100' 8mm\$5.00

(Processing not included)

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16mm CARTOONS APPROX. 400'
AVAILABLE IN SOUND OR SILENT

\$4.95 For Home Use Only

ANSCO COLOR FILM WITH PROCESSING

8mm 25' dbl. roll\$2.25
8mm 25' dbl. mag.2.75
16mm 100' available in both
sound or silent.....5.00
16mm 50' magazine.....3.50

MOVIE FILM

FRESH—WITHIN DATE—INCLUDING DEVELOPING
ANSCOCHROME Weston 32—
Available in 8mm and 16mm

100 ft. 16mm roll\$7.00
50 ft. 16mm Magazine4.50
8mm 25 ft. double roll3.00
8mm 25 ft. double Magazine3.50
16mm KODACHROME 100 ft. rolls—processing included.
Developed by Eastman Kodak. Price \$6.00 per roll.
25 ft. double, 8mm High Speed, B&W EASTMAN
KODAK, Weston 250 processing included.....1.75
50 ft. 16mm B&W EASTMAN KODAK—developed
free by Eastman Kodak.....2.00

ANSCO MOVIE FILM BLACK AND WHITE WITH PROCESSING

8mm 25' dbl. roll\$1.15
8mm 25' dbl. mag1.75
16mm 100' available in both
sound or silent.....2.50
16mm 50' magazine.....1.90

SPECIAL OFFERING IN 8mm AND 16mm COLOR SUBJECTS (CARTOONS AND FAIRY STORIES) COLOR

50 ft. 8mm\$2.00
200 ft. 8mm7.50
100 ft. 16mm5.00
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400 ft. 16mm (sound)25.00

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200 ft. 8mm3.50
100 ft. 16mm2.00
400 ft. 16mm (silent)7.50
400 ft. 16mm (sound)10.00

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processing not included

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35mm 20 exp. Black & White25¢
35mm 36 exp. Black & White49¢
AERO EKTACHROME #120 and #620
Weston 403 for \$2.15
AERO EKTACHROME 20 exp.\$1.00

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ASA 50
8mm x 400' dble.\$5.95
8mm x 1600' dble.22.00
CAMERA SPOOLED NO PROCESSING

8mm x 100' dble.\$1.79
8mm x 25' dble. 7 for price of 6160¢ each

SIZE	54 rolls	27 rolls	15 rolls
16mm x 25'	\$8.95	\$4.95	\$2.75
16mm x 50'	19.95	10.95	5.95
*16mm x 100'	49.50	29.50	17.95

* Camera spooled

16mm SOUND MACHINE

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5x7	1.89	2.09
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approx. 400 ft. each reel.

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JOHNNY, BETWEEN SHOWERS, CAUGHT IN
THE RAIN, HIS NEW PROFESSION.—2 reels
—IN THE BAND, NITE AT THE SHOW, THE
CHAMPION, THE TRAMP, HIS NIGHT OUT,
DOUGH AND DYNAMITE. The price for silent
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reel. 8mm \$5.00 per reel.

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one-reelers \$10.00 per reel and \$20.00 for two-
reelers. Full version approx. 400 ft. 16mm
each. 8mm \$5.00 per reel.

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MANUFACTURERS OF SOUND-ON-FILM RECORDING EQUIPMENT SINCE 1931

BUYING GUIDE

(Continued from page 168)

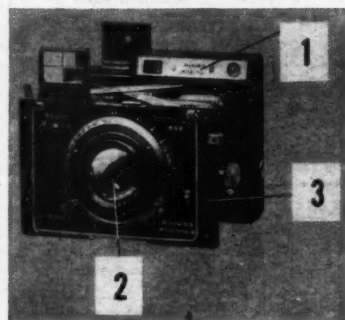
Shutter: Compur IS, 1 to 1/200 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Makina section.

Special Features: Coupled rangefinder; frame finder; Newton optical finder with parallax correction; interchangeable backs.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: \$49-\$74



Special Identification Points: 1. Coupled rangefinder; 2. Differentiated from later Makina IIS by not having all lens elements in front of shutter (see description of Makina IIS lenses); 3. From 1933 to 1938, finished only in black; after 1938, was supplied with chrome finish.

MAKINA IIa

Introduced: 1946 Discontinued: 1948

Lens: 105mm, f/4.5 Xenar or 100mm, f/4.2. Anticomar, with fixed (front elements unremovable) mounts.

Shutter: Compur OS, 1 to 1/400 sec., plus self-timer.

Flash Sync: None. See note, beginning of Makina section.

Special Features: Same as Makina II.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Shutter speeds to 1/400; 2. Fixed (unremovable) lens; 3. Self-timer.

MAKINA IIb

Introduced: 1946 Discontinued: 1948

Lens: 100mm, f/4.2 Anticomar with fixed mount.

Shutter: Compur O, 1 to 1/200 sec. (no self-timer).

Flash Sync: None. See note, beginning of Makina section.

Special Features: Same as Makina II, but had no self-timer.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Fixed (unremovable) lens; 2. Shutter

(Continued on page 172)

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Camera With Needle-Sharp F2.5 Coated Lens
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German Import! F2.5 Coated Lens
A \$79.80 Value!
\$21⁹⁵
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With Leather Case & Straps
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• 7 x 35 19 24
• Add 10% P.T. Tax to Binoculars

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WITH FAST F2.9 COATED IKATANOM LENSES
Orig. List \$69.75
\$23⁹⁵
• Coated RF • Built-in Flash Synch • Uses K16 Batteries • Speeds to 1/200

GREAT VALUE! SAVE \$52.35! LIKE NEW! 35mm Konica III Camera

With Needle-Sharp F2 Coated Lens
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With F2.8 Automatic Tessar Lens
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ILLUMINATION
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• Powerful Blower Cooling
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• Automatic Changer
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\$104⁹⁵
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EXCLUSIVE! DIRECT FACTORY PURCHASE! You'll Recognize These World-Famous \$300 Purchase!

TANACK 35mm
With 6-Element, 58mm F2.8 Hard-Coated Lens
List \$104.95
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Single Lens Reflex
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• Powerful Blower Cooling
• "Snap 5" Coated Lens
• Automatic Changer
• Holds Up to 75 Slides

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HEXACON '35'
Single Lens Reflex
With F2.8 Coated Pre-Set Lens!
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• Accepts All Types of 35mm and 2 1/2" Slides
• Powerful Blower Cooling
• "Snap 5" Coated Lens
• Automatic Changer
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35mm Camera with \$100 Features
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Model 1027 Movie Camera with F1.9 Coated Lens, 8mm W.A., 32.5mm Tele Mount
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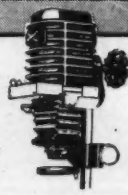



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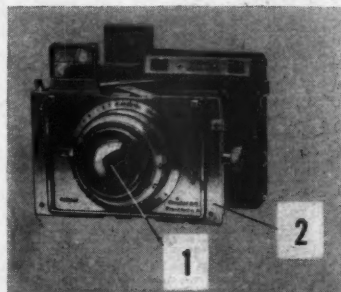
442-44 N. Wells St., Dept. 12-M.P., Chicago 10, Ill.

BUYING GUIDE

(Continued from page 170)

speeds to 1/200, instead of 1/400 sec. as in Makina Ila; 3. No self-timer.

MAKINA IIS (1936 model)



Introduced: 1936 Discontinued: 1948

Lens: All lenses for this and subsequent models have quick-change mounts for removing and inserting lenses by a 3/4 turn. Each lens is a complete unit (all elements operate in front of shutter). Standard lenses are 100mm, f/2.9 or 100mm, f/4.2 Anticomar. Accessory lenses are 190mm, f/4.8 Tele Makinar, or 73mm, f/6.8 Rapid Wide Angle Orthar.

Shutter: Compur IS, 1 to 1/200 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Makina section.

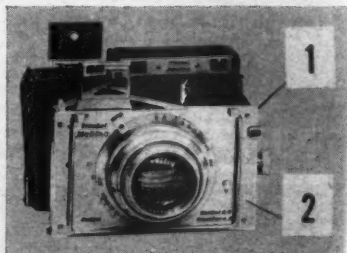
Special Features: Quick-change lens mounts; all lens elements operate in front of shutter. Other features same as Makina II.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: \$74-\$91

Special Identification Points: 1. All lens elements in front of shutter; 2. From 1936 to 1939, was supplied with chrome finished front plate; from 1940 to 1948, was supplied with black finish front plate.

MAKINA IIS (1948 model)



Introduced: 1948 Discontinued: 1949

Lens: Same as Makina IIS, 1936 model.

Shutter: Same as Makina IIS, 1936 model.

(Continued on page 174)

Imported German Leather GADGET CASE!!

Size: 7 x 5 1/2 x 4
Metal Edging
List 17.50

SPECIAL 13.85

Cat. 2003
Size: 10 x 7 x 4 1/2
2 Removable Partitions
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LORDOMAT C-35
with Built-In Exposure Meter

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Carrying Case for:
Standard Model **5.97**
(List 9.99)

C-35 Model **9.77**
(List 12.95)

Features:

- Interchangeable Lenses
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- Rapid Transport Lever
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13mm F2.8
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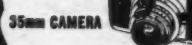
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BUYING GUIDE

(Continued from page 172)

Flash Sync: Factory installed, X only.
Special Features: Factory installed flash sync with special supporting handle. Other features same as Makina IIS, 1936 model.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

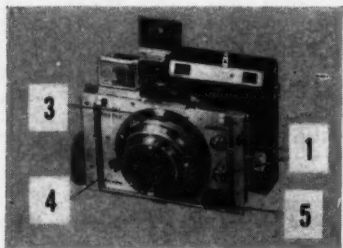
Special Identification Points: 1. Flash contact on back of front plate; 2. Made with black or chrome finish.

MAKINA III

Introduced: 1949 Discontinued: 1953

Lens: Same as Makina IIS.

Shutter: Compur IS, 1 to 1/200 sec.,



plus B & T (no self-timer).

Flash Sync: Factory installed, M & X.

Special Features: Shutter-locking de-

vice for ground glass focusing, without setting shutter at T. Other features same as Makina IIS, 1948 model.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: Not available.

Special Identification Points: 1. Knobs for MX selection and shutter lock; 2. No self-timer; 3. Compur IS (speeds to 1/200) instead of Compur-Rapid (speeds to 1/400) shutter as in Makina IIIR; 4. Made only with chrome finish; 5. Earliest version had flash contacts on back of front plate; later versions had flash contacts on front plate.

MAKINA IIIR

Introduced: 1953 (Currently in production)

Lens: Same as Makina IIS.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B & T (no self-timer).

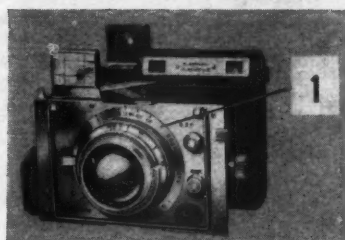
Flash Sync: Same as Makina III.

Special Features: Compur-Rapid Shutter. Other features same as Makina III.

Last List Price: With f/2.9 Anticomar, \$393; with f/4.2 Anticomar, \$372

Last Reported Used Selling Price Range in 1957: With f/2.9 Anticomar, \$175-\$210

Special Identification Points: 1.



Compur-Rapid (speeds to 1/400) instead of Compur IS (speeds to 1/200) shutter as in Makina III.

MAKINETTE 3 x 4cm

Film Size: 16 pictures 3 x 4cm (1¼ x 1⅝ in.) on 127 roll film.

Introduced: 1931 Discontinued: 1935

Lens: 50mm, f/2.7 Anticomar or 45mm, f/2 Supracomar.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. See note, beginning of Makina section.

Special Features: Newton optical-type finder.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1957: With f/2.7 Anticomar, \$22-\$40

Special Identification Points: 1. Only Makina camera using roll film exclusively.

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EUMIG MOVIE CAMERA

(Continued from page 114)

The *f*-number is shown in a window in front of the camera.

Field test films showed that the exposure system of the C16 assured adequate exposure in most cases. However, we ran into a few situations where the camera brain needed a little help in getting over the hurdles.

In bright light: caution

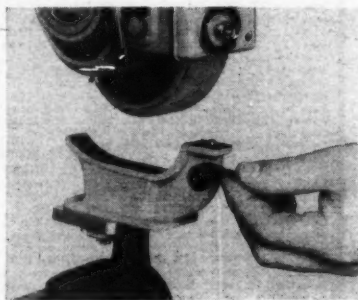
If you depend on the unaided C16 to get the best results when filming marine scenes, for example, you may be in for a bit of trouble. The water reflects too much light for good detail of boats, swimmers, or other subjects if you follow the meter. We found that exposure adjustment of about one half to one stop more than indicated by the meter resulted in pleasing color in the water and added enough detail to chase the deep shadow effect.

Back-lighted scenes proved to be another instance where the meter needed help. In this case, we walked right up to the main subject, took our reading, set the camera and stepped back to shooting position. Invariably, the needle danced out of alignment with the pointer as the stronger back light hit the camera. We stuck to the original setting, over-

exposing the background somewhat, but got the detail we wanted in the foreground.

The Eumig is certainly no smaller than the average 16mm spool loading camera. It weighs about 6 lbs. However, it has some definite advantages for available light movie making. You can get the correct exposure quickly—and without waving an exposure meter at people. And the camera is also one of the quietest 16mm units we have ever used. Even at 24 fps and higher, the motor is difficult to hear from only a few feet away.

Another feature of the C16 is a large viewfinder image. The viewfinder is also



For hand-held shooting, Eumig can be removed from tripod quickly since rapid lock cradle unlocks at flip of a lever.

geared to the permanently mounted lens for parallax correction from 3 ft. to infinity. An internal masking system provides for the correct field of view for wide-angle and telephoto attachments.

Short film run

We found the 15-ft. film run too short for long scenes. It often meant rewinding in the middle of a shot. A wind indicator scale, calibrated in 3-ft. sections, tells you precisely the amount of spring wind left at any time.

The rapid lock cradle (see picture at left) that slips off the C16 at the flip of a lever is a fine way to secure the camera to a tripod, and at the same time permits rapid removal for hand-held shooting.

The camera's film registration system, consisting of two channel guides for horizontal positioning and a pull down claw that also holds the film in place for the exposure, produced good, steady screen images. The gate itself slips out easily for cleaning.

There's a cable release socket in the shutter button for regular filming and one located in the rear for single frame exposures. That last represents a neat setup for animation shooting. The release is safely out of the way of the lens. Price of the Eumig C16 is \$289.95.

—M. A. M.

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RETINA — This is the book that is accepted as one of the "standards" in the field. A vast collection of information on the RETINA that goes into every phase of its operation, accessories, tables, etc. Covers latest models. Plenty of photos and explanatory drawings and diagrams. 112 pages, 5 x 8.

BOLEX B-8, C-8, by G. R. Sharp and Myron Matkin. The brand new Bolex 8 Guide blows a clear, sharply defined trail for owners of Bolex B8 and C8 cameras who want to get the most out of their cameras. Whether your problem is how to shoot, what to shoot, titling, animation, proper exposure or special effects, the Bolex 8 Guide is your best bet. 112 pages, fully illustrated, 5 x 8. (Dec.)



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MAMIYAFLEX STORY

(Continued from page 107)

else makes a twin-lens camera focusing so close without accessories? For the weak in spirit who will settle for immovable subjects, there's a Paramender gadget which fits on a tripod and moves the camera up and down the prerequisite two inches between viewing and taking lenses so the taking lens can shoot what the viewing lens sees.

Testing the lenses

We tested all three lens combinations carefully. The taking lens is exactly the same focal length and aperture as the viewing lenses so focusing must be exact at full aperture.

Results of lens tests were most gratifying. The five element design of the 80mm proved to be a superior lens, sharp even in the corners of the negative at full apertures. The longer focal lengths were of similar quality.

We found that the Mamiyaflex C Professional is an easy camera to operate—once you get used to it. Focusing knobs, film advance levers, shutter release were all in places strange to us. At first you're bound to set off the shutter release accidentally while trying to focus (we did). Once you get the hang of the controls, however, you'll scarcely miss the automatic gadgetry of other cameras.

The entire camera is slightly larger and a bit heavier than most ordinary twin-lens reflexes. Neither problem bothered us overly when we were picture taking.

What a professional thinks

Just to see if we were right in our appraisal of the Mamiyaflex C Professional, we placed it, plus the lenses, in the hands of professional photographer Leo Stashin, one of the toughest critics a camera could have. Reported Stashin, "The lenses, as far as I can tell from the amount of film that I've used, are extremely sharp... the bed housing for the bellows is so strongly made that the possibility of front wobble, so prevalent on other twin-lens reflexes, is completely eliminated... I checked the shutters against a famous well-known make I've been using. The Seikosha's are a bit noisier but extremely smooth in operation... the changing of lenses is simple and fast for a professional who's been forced to use weird bayonet mounts, long threads and various dot-matching systems with other types of cameras... the thing that bothered me most... when using the parallax compensating lines and working very close (18 inches), you can only see 3/4 of the picture. At seven inches, you see 1/2... but I liked the camera design—the price is fabulous... it's going to open new fields of photography for the twin-lens reflex camera owner."—THE END

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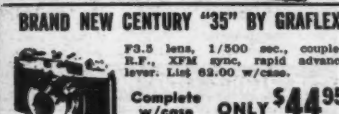
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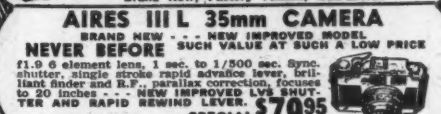
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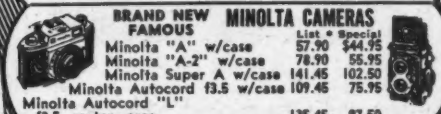
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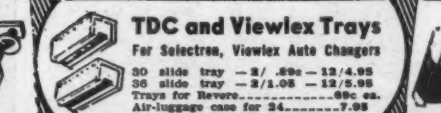
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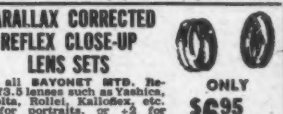
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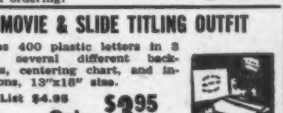
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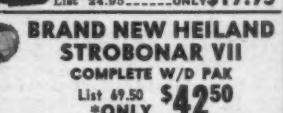
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Lens of critical sharpness,
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for Rollei (except 2.8), \$16.95 OR \$29.95 FOR SET in double leather case. Focus, compose on groundglass — no guesswork! Lenses fit the filterholders, no installation. Coated, color-corrected — no exposure increase needed. Shipping Charge, per lens, 25c.

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sets in performance. #1 set focuses from 38" to 20" #2 set from 20" to 13". Low

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Coating of taking lens — 30c extra per set Shipping Charge 10c

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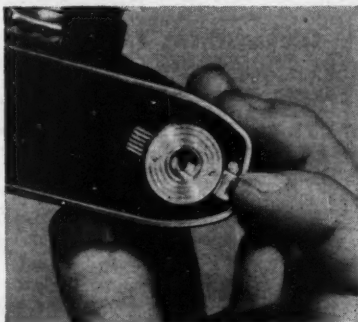
135-06 NORTHERN BLVD., DEPT. M12 FLUSHING 54, N. Y.

RETINA REFLEX

(Continued from page 102)

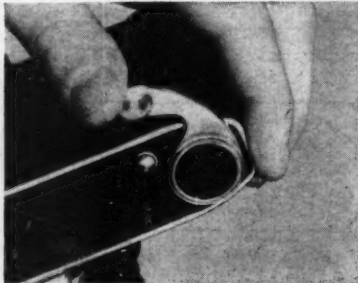
up, the opening catch at the camera bottom is almost accident proof (picture, below).

Many of the German-made Kodaks have had impossibly small focusing levers. Not the Retina Reflex. The lens mount is surrounded by a heavily



Camera has easy but fool-proof opening catch. Turn cover on camera bottom. Press button, back swings open.

knurled focusing ring which, in a 1/3 turn, moves smoothly and noiselessly from about 2' feet to infinity. The Synchro-Compur LVS shutter uses linear markings from 1 to 1/500 sec. and LVS numbers from 1 through 18. These co-



Like the Retina IIIc, Retina Reflex has single-stroke rapid wind lever on right side of camera bottom.

incide with the markings of the built-in exposure meter. The meter, incidentally, is not the same one used on the Retina IIIc. This is a brand new, larger, more sensitive unit with ASA markings up to 1300 and a line further on approximating 1600. The meter works by matching a movable needle geared to the calculator dial with a needle connected to the photoelectric cell. Markings are so legible they can almost be read in the dark.

The f/2 Schneider Xenar lens delivers an image through the prism which is as brilliant or more brilliant than any other eye-level reflex camera at any aperture. The ground glass is virtually grainless. The entire ground glass, with the exception of the rangefinder spot in the middle can be used for focusing (picture, page 181). There is no distortion or fall off of

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No. 5...	3 1/4" x 2"	...	6.95
No. 6...	3 1/4" x 2 1/4"	...	7.95
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image brilliance or definition as is often the case with other single-lens reflexes.

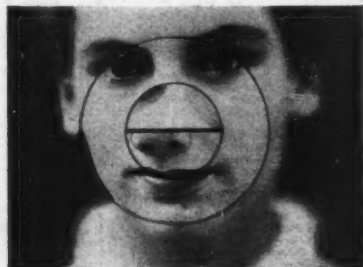
The Schneider Xenar interchangeable front component 50mm f/2 lens is not new in itself. We've tested a number at various times so we know that it's one of the top 35mm lens designs. The interchangeable front components—there's a 35mm f/3.5 Curtar and an 80mm f/4 Longar—are all right at moderate apertures but have a tendency toward softness when used wide open. That's what we noted in early samples anyhow. None of the newer front lens units for the Retina Reflex is available yet. The idea of using interchangeable front



Here's what you see through finder. Outer area is focusing, viewing frame. Inner has split-image rangefinder.

lens components rather than complete lens systems has been the subject of hot discussion among the experts for some time, however.

While the Retina Reflex did become a popular unit around MODERN's office, all was not sweetness and light. (Kodak



Enlarged section of central rangefinder shows how split-image, and ground glass area look when out of focus.

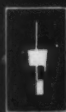
warned us that there were a few problems to iron out—maybe these are a few of them.) The swinging mirror which passes the image from the lens to the prism had a tendency to swing upward and not catch properly if the rapid wind lever was moved too rapidly and enthusiastically. Secondly, the grooved sides of the film plane undeniably left deep, fine scratch marks on the emulsion side of the film. Both these flaws are minor ones in that they can be corrected mechanically without too much trouble. But they are there—on our test models anyway.

What to do? If you're a single-lens reflex bug and feel the money burning a

(Continued on page 182)

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An Exposure Meter with
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RETINA REFLEX

(Continued from page 181)

hole in your pocket, cross your fingers and buy one now. You may be able to find a sample camera at a store. Be prepared for the bugs that inevitably turn up in new camera designs. If you can wait, do so. Eastman Kodak Co., may be slow, but when they introduce the camera officially it will work right.

In any event, the Kodak Retina Reflex is another step in the right direction—toward complete automatic single-lens reflex with interchangeable lens and foolproof, efficient, quiet operation. There may not be any better or more advanced designs around for quite awhile.—THE END



WHITE

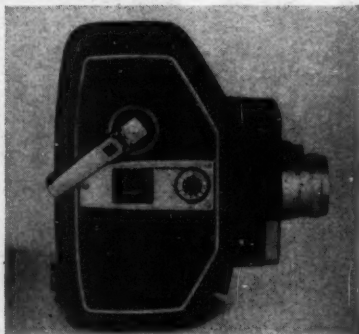
BELL & HOWELL

(Continued from page 113)

model; has no automatic exposure system. But it puts the scope of three lenses (normal, wide-angle and telephoto), at the command of the film maker. Lenses can be changed at a twist of the turret, instantly putting the right lens for the shot into position.

The only way we could ascertain the difference in movie making performance between the cameras was to shoot with them. The same type of color film was loaded into both cameras.

The advantages of the Electric Eye



Dials and indicators for 240TA and 240EE are on side of camera.

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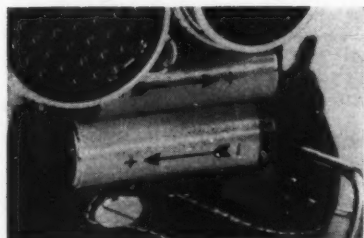
camera were apparent immediately. We could forget about exposure and concentrate on getting the shots we wanted.

On the other hand, the turret on the 240TA worked easily and smoothly and often permitted us to make a variety of shots from one position.

With the Electric Eye camera we had to slip on wide-angle or telephoto attachments to duplicate the shots made with the turret camera. Viewfinder elements also had to be changed. The change proved much more time consuming than did switching turret-mounted lenses on the 240TA.

Several sports shots, which required a telephoto quickly, would have been lost with the Electric Eye camera.

There were times with the Electric Eye camera where we wished purposely to under or overexpose for special effects. It was a matter of only seconds to remove the batteries by undoing a knurled screw holding the battery cover in place. Removing the batteries puts the exposure meter out of operation.



240EE batteries can be removed quickly

Film shot with the EE proved more than adequately exposed in most cases. However, where we let the meter do the thinking on back-lighted scenes, some detail was lost in foreground subjects. On the other hand, hasty meter reading cost us proper exposure with the 240TA several times.

Film shot with regular lenses on the turret camera seemed slightly sharper than footage made with the wide-angle and telephoto attachments.

We drew some conclusions from our tests with the 240EE and 240TA. The film maker who is interested in a camera that takes exposure out of his hands and lets him concentrate on shooting, and who isn't interested in lens versatility, may prefer the 240EE. The home movie maker who takes his filming a bit more seriously, wants a camera that will give him a chance to experiment, and has a need for a wide choice of lenses at his immediate disposal, will probably prefer the 240TA.

Price of the B&H 240EE with B&H 20mm f/1.9 lens in focusing mount is \$329.95. Price of the B&H 240TA with B&H 20mm f/2.5 fixed focus lens is \$259.95; with B&H 20mm f/1.9 lens in focusing mount, \$284.95. Single and twin-lens turret models also are available from \$179.95.—M. A. M.

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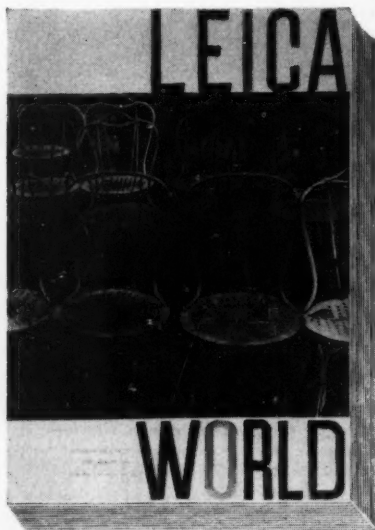
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WITTNAUER CINE-TWIN

(Continued from page 115)

tem employed to load the camera does not conflict with the standard threading method when using the Cine-Twin to project.

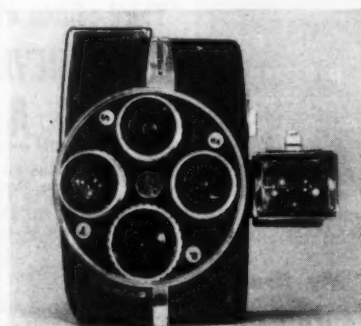
The outstanding feature of the Cine-Twin as a camera is the electric motor. We were able to shoot the entire 25 feet of double-8 film, without interruption if we chose, to shoot scenes lasting as long as two minutes.

Undoubtedly, batteries and electric motor add weight to the camera. But we feel that the slight extra effort required to handle the camera's 4 lbs. is worth it. The lens turret worked smoothly. Letters on the turret indicating which lens was in shooting position proved helpful for faster filming.

The mechanical footage indicator on our test camera was not completely accurate. We found unexposed footage several times when the indicator told us that the film had been completely exposed. However, we had one of the few cameras now available—one that had been passed around considerably. The counter may have been damaged.

Rotary shutter positioned

You remove the camera film compartment cover and raise the 300-ft. capacity reel arms to prepare for projection. Three things happen when the front reel



Turret is letter-coded for immediate identification of desired lens (WA for wide-angle, T for telephoto, S for standard and P for projection).

arm is raised. First, the rotary shutter is repositioned for projection. At the same time, a mask is removed from the projection lamp so that light may travel through a condenser system. The light is then reflected to the film by a mirror. And third, two pins are raised in the film gate. Since double-8 film is actually 16mm in width, some method is needed to halve the film gate to accommodate processed and slit 8mm film. The pins serve as the left hand guide for film during projection.

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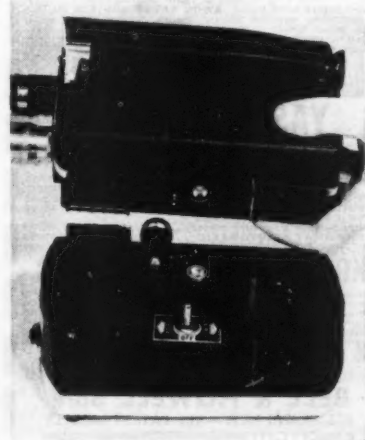
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ing unexposed film in the camera may run into one difficulty with the Cine-Twin. You cannot project with film remaining in the camera. To save your film, you will have to cover the lens and run the film through the camera, first noting the footage that remains to be shot. You then turn the spool over, put it back in the camera, and run off the entire 25 ft.—with the lens cap still on. When you're ready to shoot again, the film is placed in the camera and run through a third time, with the lens cap on, until the footage indicator reaches the point where the process started. Wittnauer is working on an accessory to eliminate the above procedure.

We threaded the processed test film through the sprockets, after mounting the camera on the power unit, and placed the screen about 17 ft. away—the pro-



Camera couples directly to power unit for projection. They can be joined even with motor running in complete safety. Camera is louvred for cooling from power unit blower.

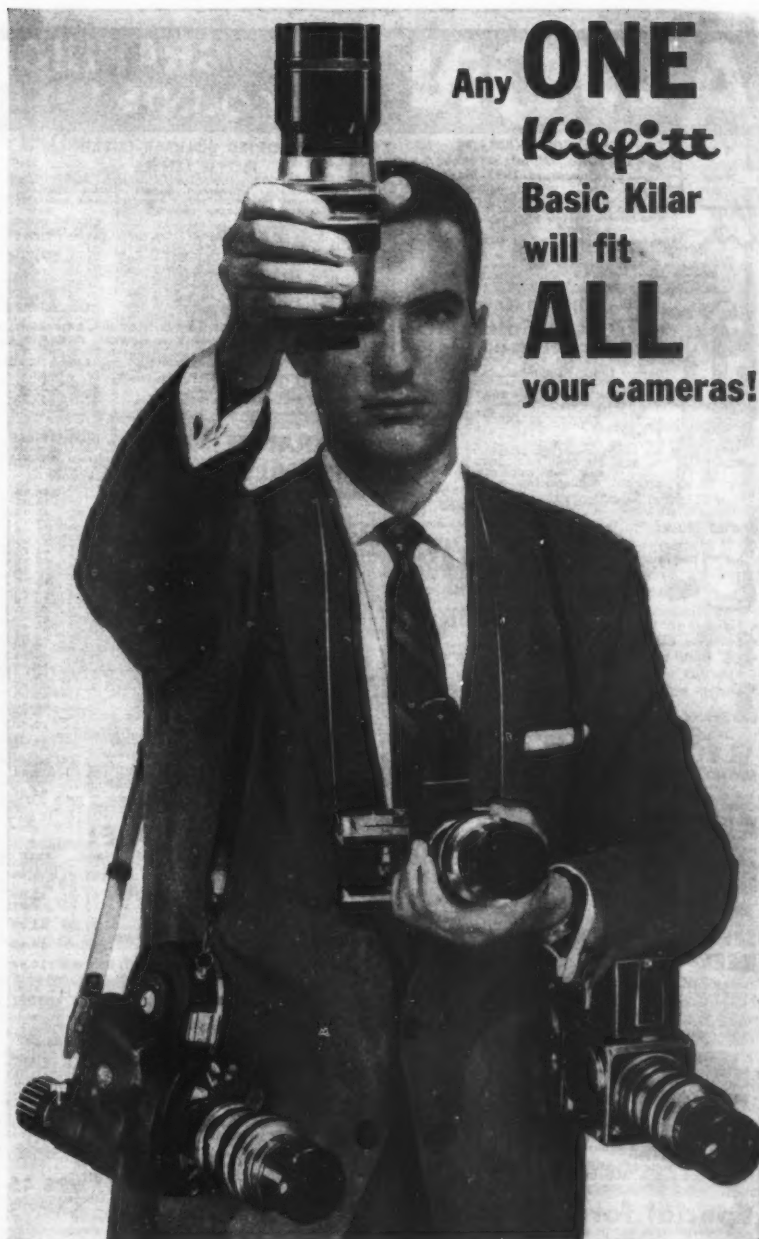
jection distance allowed by the average living room. The projection lens barrel is long enough to serve as a reminder to position it before turning on the projector. Incidentally, the two units of the Cine-Twin can be safely joined even with the motor running.

The projector runs more quietly than several other 8mm projectors currently available. Screen images were as bright, or, in some cases, brighter than other projectors of the same wattage. The projector appeared to work at a steady 16 fps, with no apparent flicker.

Price of the Cine-Twin is \$159.50, with fixed focus Chronostar 13mm f/2.5 lens, Chronostar f/1.6 projection lens and a leather carrying case.—M. A. M.



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 Gra Lab 1168 Luminous Timer 24.95 17.20
 Premier A2 Roto Dryer 24x36 49.95 33.89
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 Stalimaster 1" Brush 4.95 3.50
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 Kodak 35mm Day Load Tank 10.95 7.40
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1957 MODEL!
 35mm with 6 Element f 1.9 lens
 with LV5 shutter & rapid rewind lever
 Never before such value. AWON SAVES YOU \$36 on this sensational popular 35mm camera. Shutter speeds from 1/500 to 1 sec. Full MX sync. film wind lever. 1 sec to 1/500 sec. Full MX sync. leather case. Focuses 20' to infinity. Includes leather case. List w/case \$112.
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*** YASHICA REFLEX CAMERAS**
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 AWON is proud to offer these highly priced imported cameras at sensational discount prices!
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KODACHROME PROCESSING
 35mm x 20 exp. mtg. \$1.00
 35mm x 36 exp. mtg. 2.00
 8mm x 25 ft. dble. 1.00
 8mm x 25 ft. mag. 1.00
 16mm x 50 ft. mag. 1.00
 16mm x 100 ft. roll 2.00
 All film returned via insured mail.
 Check or Money Order must accompany film.

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ALL BRAND NEW—ALL LATEST MODELS

NEW ELECTRIC EYE
B&H AUTOMATIC Movie Cameras
—1.9 LENS SETS ITSELF
 Just introduced. Miracle movie cameras set lens auto. automatically.
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SOLIGOR Reflex Camera Outfit
 featuring the Soligor I—Twin lens Reflex with f3.5 ctd. lenses; Speeds to 1/300; FX Sync; Ground Glass Focusing; Geared Coupled Focusing Lever; Body shutter release.
CAMERA & leather case list price—\$2195
\$42.90 AWON SALE—\$2195

SOLIGOR Model III Outfit
 SEMI-AUTOMATIC film transport, split-image rangefinder plus ground glass focusing. Complete with Model III camera, case and flashgun. An AWON Special.
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This late 1958 dated film is in its original sealed package and is guaranteed by the manufacturer. Day or Tung. Price includes processing & mounting (35mm).

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8mm x 25' dble. mag.	3.50
16mm x 50' mag.	5.25
16mm x 100' roll	7.75
35mm x 20 exp.	2.45
35mm x 36 exp.	3.80

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1-Brand New Day-Light Film
100'-35mm negative film
5-film cartridges
\$5.95

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Fast, fine grain, B & W panchromatic ASA 50. Prices include new fast processing service.

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16mm x 50' mag. Plus X or XX	2.00
16mm x 100' Anso	2.75
16mm x 100'	2.50
16mm x 100' Kodak Plus X	2.85
16mm x 100' Sound, ASA 50	.....	3.40
16mm x 50' roll, Plus X	.....	1.50
16mm x 100' Kodak Super XX ASA 100	.....	2.95
8mm Mag. B. & W.	.....	2.00
16mm x 100' Tri X Sound Perf	.....	3.25
16mm x 100' Tri X Sound Perf	.....	5.25

BUY
SIX
GET
ONE
EXTRA
FREE

CUT FILM HOLDER

Standard Double
Fits all Graphics and other cameras with standard press-type spring backs.

Size	Reg.	SPEC.
3 1/4 x 3 1/4	0.85 \$ 2.75
3 1/4 x 4 1/4	3.99 2.89
4x5	4.12 3.99
5x7	4.71 3.39
* 8x10	13.00 10.40

Minimum Order—3
* No Minimum Required

SPECIAL OFFER - 16mm film

16mm x 100' roll Anso ASA 50—FAST, Fine grain, Panchromatic, B&W reg \$3.75 ea.

A-1 Special - \$1.99 ea. PROCESSING included minimum order 5 rolls

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Size	Daylight or Tungsten
35mm x 112'\$18.95
35mm x 50'8.85
35mm x 27 1/2'6.95
35mm x 20 exp. in metal cart. 1.20 ea. 6 for \$5.5012 for \$10
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35mm x 20 exp. Tung\$6 for \$4
420 Tungsten\$6 for \$2.00

Aero EKTACHROME

ASA 40 with 1 1/2 gallon processing kit

5 1/4 x 20'	.....\$5.95
5 1/4 x 40'	.....\$7.95
7 x 18'	.....\$5.95
5 1/4 x 40'	.....\$5.95
35mm x 27 1/2'	.....\$5.95

EXTRA—Free compensating filter with any of above.
SPECIAL—1 1/2 gallon Ektachrome processing kit \$3.95

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ASA 40. Original sealed carton. 5 1/4" x 40" film. 1 1/2 gallon processing kit PLUS 1/2 gallon proc. kit PLUS one color correction & 4 different base filters.

SPECIAL—\$9.95

Bulk ANSCO COLOR daylight or Tung. #534 1955 DATE

35mm x 100'\$11.95
35mm x 50'6.50
35mm x 27 1/2'4.00

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KODAK SIGNET 35mm outfit	891.45 \$ 64.00
KODAK SIGNET 35mm f3.5 lens	75.00 49.50
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KODAK STEREO outfit	95.50 74.60
KODAK STEREO camera	89.50 67.50
KODAK DUAPLEX IV	17.95 13.45
KODAK DUAPLEX IV flash outfit	25.25 18.95
BROWNIE HAWKEYE flash outfit	15.25 11.50
KODAK HOLIDAY flash outfit	9.95 7.15
KODAK PONY 135 model C. f3.5	36.50 27.00
KODAK PONY 135 model C outfit	49.55 36.95
KODAK SIGNET 40, 35mm, w/flash	60.00 49.95
KODAK MOVIE CAMERAS	
KODAK BROWNIE 8mm model II, f2.7	29.95 21.00
KODAK BROWNIE 8mm model II, f2.3	39.75 29.80
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KODAK BROWNIE turret 8mm f1.9	84.75 63.40
KODAK MEDALLION 8mm mag. f1.9 foc	144.50 95.80
KODAK 1100 16mm f1.9 lens	229.25 169.00
KODAK 1100 turret 16mm f1.9 lens	337.00 252.75
KODAK PROJECTORS	
CINE KODAK showtime 8mm projector	123.50 92.60
CINE KODAK showtime w. variable speed control	139.00 104.25
BROWNIE "300" 8mm movie proj	64.95 49.50
BROWNIE "300" 8mm movie proj	79.50 59.60
KODASCOPE ROYAL 16mm movie proj	295.00 231.25
KODASLIDE SIGNET 35mm slide projector	
300 watt w/ f3.5 lens, auto changer	69.50 49.95
KODASLIDE w/ 35mm lens	82.50 59.95

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Type 31 (Model 80)6 rolls for \$ 7.00
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KODAK SUPER XX ROLL FILM

127, 120, 620, 116, 616\$1.00
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Re-pooled aerial film 6 rolls for

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Perforated or Unperf.	
35mm x 100' \$1.98	
16mm x 100' 1.75	

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PER CASE OF 120	
25 (per case) \$ 8.95	
45 (per case) 7.95	
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SUPER XX (ASA 100) Double Perforation\$7.95

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Kodak Plus X or Super XX Microfilm, Infrared, Anso Supreme or Background.....
35mm x 100 ft. \$1.95 each
FREE: 100' of ASA 24 or 50 film with each 300' of above.
Kodak Background X (ASA 24) or Kodak Infrared..... 35mm x 200 ft. \$1.50 ea.

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ASA32 • 35mmx75'

\$4.95

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- 120 & 320 Kodachrome.....3 for \$3.00
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- 1000 for.....8.50
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- 620 Supreme.....12 for \$3.00
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- Includes Kodak Processing.....3 for \$4.50
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- Include 20% deposit on all C.O.D. orders. All film and paper are outdated and sold as is unless otherwise stated. Prices subj. to change without notice.

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- 4x5 E.K. Commercial (25 shts.).....3 for \$3.50
- 4x5 Kodak Infra Red (100 shts.).....\$1.00
- 8x7 E.K. Portrait Pan, Panatomic X, Superpancho Press type B (25 shts.).....3 for \$5.95
- 8x10 E.K. Contrast Proc Pan (25 shts.).....\$1.95
- 8x10 Anso Process (25 shts.).....1.95
- 8x10 Kodak Infra Red (25 shts.).....2.50
- 10x12 E.K. Commercial (10 shts.).....1.95
- 11x14 Contrast Proc Pan (10 shts.).....1.95

COLOR CUT FILM SPECIALS

- 4x5 Ektachrome (10 shts.).....\$2.50
- 4x5 Ektachrome B (10 shts.).....1.95
- 8x7 Ektachrome (10 shts.).....2.95
- 8x10 Ektachrome (10 shts.).....3.95 ea.
- 8x10 Ektachrome Varigam (100 shts.).....\$10.00
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Get your own 4 x 5 SHEETS! \$6.95 roll

Kodak 8" x 200' TRI-X, ASA 200

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- 4 x 5 Anso Process
- Excellent for copy work. 25 shts. per box. 100 shts—\$3.00
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35mm McEGREGOR Color or DYNACOLOR

57 date. Proc. & Mtg. Inc.

36 Exp.	for \$8. 6 for \$11
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These are exposed and developed just like contact or enlarging paper. After developing, these plates can be used in your slide projector or mounted in a frame and backed by any colored paper for the effect you desire.

2x33 boxes for \$1
11x146 per box \$1.50

Fresh ASA 50 Aero Ektachrome

35mm x 20 exp.\$1.50 ea.
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Processing included

35mm x 40' Bulk.....\$3.95	35mm x 75' Bulk.....\$ 7.50
35mm x 75' Bulk plus 1 1/2 gal. devel. kit.....\$10.00	

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11x14" SWGL (50 shts) #1, #4, #5.....3.00
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8x10" LWSM #1, 3.....1 box (50 shts) 1.00
18x22" LWSM #1, 3.....1 box (50 shts) 1.00
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8x10" SWGL #1, 5 (100 shts.).....3.95
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325mm f8 TELEPHOTO LENS
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For EKAKTA, PRAKTIFLEX, PRAKTIKA and all 35mm single lens reflex cameras with focal plane shutters. Gives 6 1/2x magnification not 2x. No vignetting. Price \$10.00 postpaid.
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From Any Size Transparency
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2 1/4 x 3 1/4... 25¢ ea. 2 1/4 x 3 1/4... 31¢ ea.
4x5... 75¢ ea. 4x5... 85¢ ea.
5x7... \$1.00 ea. 5x7... \$1.10 ea.
11x14... \$4.75 ea. 11x14... \$5.00 ea.
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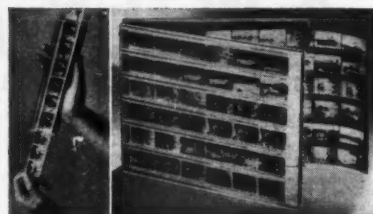
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8mm mag.	3.50	3.00	2.35	1.50
16mm mag.	4.00	3.60	2.50	1.50
16mm 100' roll	7.50	6.65	4.50	2.25
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Protect your valuable originals, run duplicates
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Color Prints from 1/2 35mm to 4x5 Trans.
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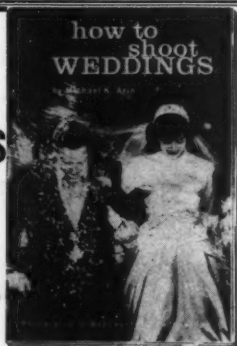
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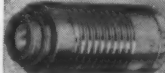


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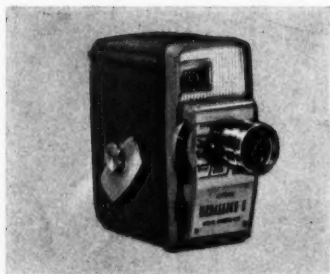
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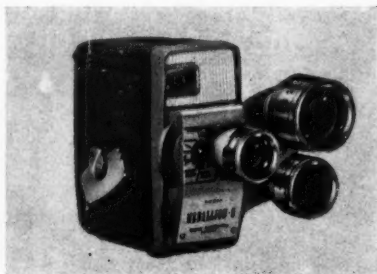


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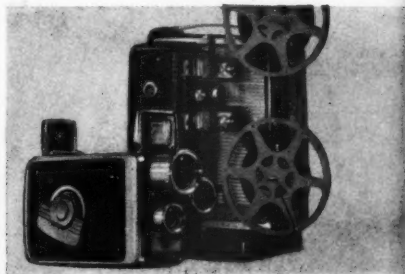
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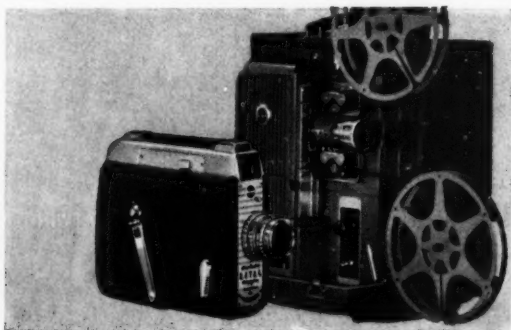
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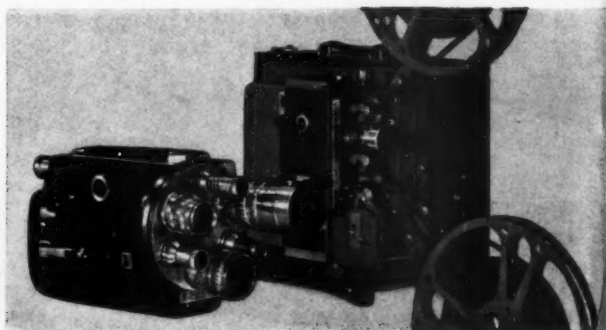
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